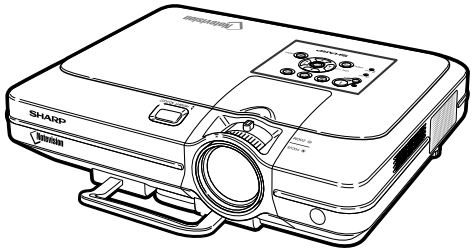
SHARP SERVICE MANUAL
SERVICE-ANLEITUNG

SX2T3PG-C45X/



LCD PROJECTOR
LCD PROJEKTOR

MODEL
MODELL **PG-C45X**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzersicherheit (erforderliche Sicherheitsregeln in einigen Ländern) muß das Gerät in seinen Originalzustand gebracht werden. Außerdem dürfen für die spezifizierten Bauteile nur identische Teile verwendet werden.

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SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

Specifications

Product type	LCD Projector
Model	PG-C45X
Video system	NTSC 3.58/NTSC 4.43/PAL/PAL-M/PAL-N/PAL 60/SECAM/ DTV480I/DTV480P/DTV540P/DTV580I/DTV580P/DTV720P/DTV1035I/DTV1080I
Display method	LCD panel × 3, RGB optical shutter method
LCD panel	Panel size: 0.99" (25.1 mm) (15 [H] × 20 [W] mm) No. of dots: 786,432 dots (1,024 [H] × 768 [V])
Standard lens	1–1.27 × zoom lens, F1.7–2.2, f = 36.5–46.3 mm
Projection lamp	AC 250 W lamp
Component input signal (INPUT1/2)	15-pin mini D-sub connector Y: 1.0 Vp-p, sync negative, 75 Ω terminated P_B: 0.7 Vp-p, 75 Ω terminated P_R: 0.7 Vp-p, 75 Ω terminated
Horizontal resolution	750 TV lines (DTV720P)
Computer RGB input signal (INPUT 1/2)	15-pin mini D-sub connector RGB separate/sync on green type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) VERTICAL SYNC. SIGNAL: Same as above
Video input signal (INPUT 3)	RCA connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated
S-video input signal (INPUT 4)	4-pin Mini DIN connector Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Computer control signal (RS-232C)	9-pin mini DIN connector
Pixel clock	12–230 MHz
Vertical frequency	43–200 Hz*
Horizontal frequency	15–126 kHz
Audio input signal	ø3.5 mm minijack: AUDIO, 0.5 Vrms, more than 47 kΩ (stereo)
Audio output	3.0 W (monaural)
Speaker system	4 cm × 7 cm
Rated voltage	AC 100–240 V
Input current	3.4 A
Rated frequency	50/60 Hz
Power consumption (normal)	340 W (Standard mode)/290 W (Low power mode)
Power consumption (standby)	About 0.8 W (When “Mntr.out/RS232” is set to “OFF”)
Heat dissipation	1,280 BTU/hour
Operating temperature	41°F to 104°F (+5°C to +40°C)
Storage temperature	–4°F to 140°F (–20°C to +60°C)
Cabinet	Plastic
I/R carrier frequency	38 kHz
Dimensions (approx.)	15 3/8" × 3 7/8" × 11 9/16" (390 (W) × 99.0 (H) × 294 (D) mm) (main body only) 15 1/2" × 4 7/16" × 11 5/8" (393 (W) × 114.0 (H) × 303.2 (D) mm) (including adjustment foot and projecting parts)
Weight (approx.)	11.3 lbs. (5.1 kg)
Supplied accessories	Remote control, Two R-6 batteries, Power cord for U.S., Canada etc. (11'10", 3.6 m), Power cord for Europe, except U.K. (6', 1.8 m), Power cord for U.K., Hong Kong and Singapore (6', 1.8 m), Power cord for Australia, New Zealand and Oceania (6', 1.8 m), RGB cable (9'10", 3 m), USB cable (9'10", 3 m), Computer audio cable (9'10", 3 m), DIN-D-sub RS-232C adaptor (6 45/64", 15 cm), Extra air filter, Lens cap (attached), Projector manual and technical reference CD-ROM, Sharp Advanced Presentation Software CD-ROM, Operation manual, Quick reference label
Replacement parts	Lamp unit (Lamp/cage module) (BQC-XGC50X//1), Remote control (RRMCGA029WJSA), Two R-6 batteries (“AA” size, UM/SUM-3, HP-7, or similar), Power cord for U.S., Canada etc. (QACCDA010WJPZ), Power cord for Europe, except U.K. (QACCV4002CEZZ), Power cord for U.K., Hong Kong and Singapore (QACCBA012WJPZ), Power cord for Australia, New Zealand and Oceania (QACCL3022CEZZ), RGB cable (QCNWGA012WJPZ), USB cable (QCNWGA014WJPZ), Computer audio cable (QCNWGA013WJPZ), DIN-D-sub RS-232C adaptor (QCNWGA015WJPZ), Air filter (PFILDA005WJZZ), Lens cap (PCAPHA003WJSA), Projector manual and technical reference CD-ROM (UDSKAA016WJZZ), Sharp Advanced Presentation Software CD-ROM (UDSKAA017WJZZ), Operation manual (TINS-A428WJZZ), Quick reference label

* Temporary noise may be visible with vertical frequencies above 100Hz if OSD functions are activated.

This SHARP projector uses a LCD (Liquid Crystal Display) panel. This very sophisticated panel contains 786,432 pixels (× RGB) TFTs (Thin Film Transistors). As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to. This unit has some inactive pixels within acceptable tolerances which may result in inactive dots on the picture screen. This will not affect the picture quality or the life expectancy of the unit.

Specifications are subject to change without notice.

IMPORTANT SERVICE SAFETY NOTES (for USA)

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines as follows:**

WARNING

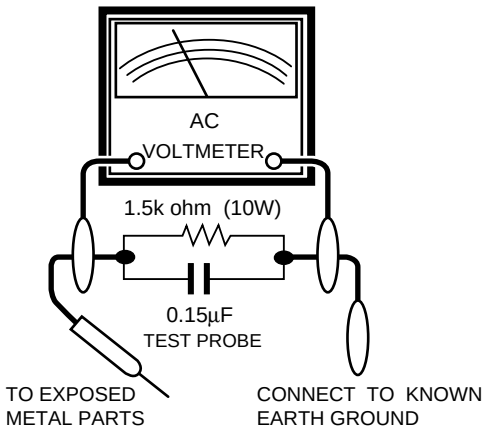
1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

BEFORE RETURNING THE PROJECTOR: (Fire & Shock Hazard)

Before returning the projector to the user, perform the following safety checks:

1. Inspect lead wires are not pinched between the chassis and other metal parts of the projector.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current leakage in the following manner:

- Plug the AC cord directly into a 120-volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in parallel between all exposed metal cabinet parts and earth ground.
- Use an AC voltmeter with sensitivity of 5000 ohm per volt., or higher, sensitivity to measure the AC voltage drop across the resistor (See Diagram).
- All checks must be repeated with the AC plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these checks.)
  Any reading of 0.3 volts RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in Projector have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams. For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

WARNING: The bimetallic component has the primary conductive side exposed. Be very careful in handling this component when the power is on.

AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les projecteur à présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue.
Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚠" et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques. Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies ou autres accidents.

AVERTISSEMENT: La composante bimétallique dispose du conducteur primaire dénudé. Faire attention lors de la manipulation de cette composante sous tension.

NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

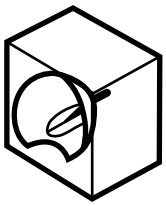
The light source, metal halide lamp, in the projector emits small amounts of UV-Radiation.

AVOID DIRECT EYE AND SKIN EXPOSURE.

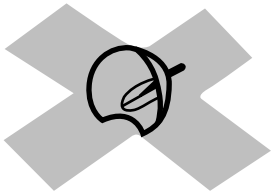
To ensure safety please adhere to the following:

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned “on” and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type BQC-XGC50X//1 rated 85V/250W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

NOTE POUR LE PERSONNEL D’ENTRETIEN

PRECAUTION POUR LES RADIATIONS UV

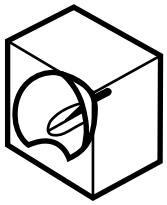
La source de lumière, la lampe métal halide, dans le projecteur émet de petites quantités de radiation UV.

EVITEZ TOUTE EXPOSITION DIRECTE DES YEUX ET DE LA PEAU.

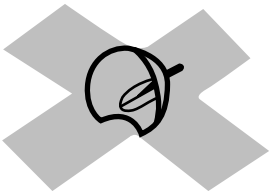
Pour votre sécurité, nous vous prions de respecter les points suivants:

1. Toujours porter des lunettes de soleil lors d’un entretien du projecteur avec la lampe allumée et le haut du coffret retiré.

2. Ne pas faire fonctionner la lampe à l’extérieur du boîtier de lampe.



3. Ne pas faire fonctionner plus de 2 heures avec le coffret retiré.



Précautions pour les radiations UV et la lampe moyenne pression

1. Toujours débrancher la fiche AC lors du remplacement de la lampe.
2. Laisser l’unité refroidir pendant une heure avant de procéder à l’entretien.
3. Ne remplacer qu’avec une lampe du même type. Type BQC-XGC50X//1 caractéristique 85V/250W.
4. La lampe émet de petites quantités de radiation UV- éviter tout contact direct avec les yeux.
5. La lampe moyenne pression implique un risque d’explosion. Toujours suivre les instructions d’installation décrites ci-dessous et manipuler la lampe avec soin.

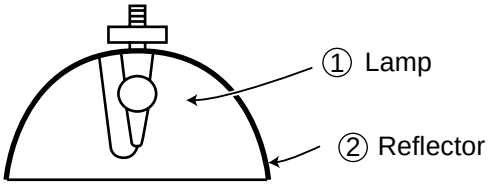
UV-RADIATION PRECAUTION (Continued)

■ Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.) Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.

[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposure.

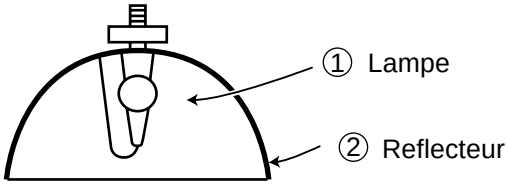
PRECAUTION POUR LES RADIATIONS UV (Suite)

■ Remplacement de la lampe

Remarque:

Comme la lampe devient très chaude pendant le fonctionnement de l'unité, son remplacement ne doit être effectué au moins une heure après avoir coupé l'alimentation (pour permettre à la lampe de refroidir). En installant la nouvelle lampe, s'assurer de ne pas toucher la lampe (ampoule). Remplacer la lampe en tenant son réflecteur ②.

[N'utiliser qu'un remplacement d'origine.]



DANGER ! — Ne jamais mettre sous tension sans la lampe pour éviter un choc électrique ou des dommages des appareils car le stabilisateur génère de hautes tensions à sa mise en route.

Comme de petites quantités de radiation UV sont émises par une ouverture entre le couvercle du conduit et le botier de la lampe,il est recommandé de placer le CAPUCHON D'OPTIQUE sur l'ouverture pendant l'entretien pour éviter une exposition des yeux et la peau.

WARNING: High brightness light source, do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly in to the beam of light.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO MOISTURE OR WET LOCATIONS.

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT REMOVE SCREWS
EXCEPT SPECIFIED USER
SERVICE SCREWS

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE CABINET.
NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lighting flash with arrowhead within a triangle is intended to tell the user that parts inside the product are risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the manual with the projector.

AVERTISSEMENT: Source lumineuse de grande intensité. Ne pas fixer le faisceau lumineux ou le regarder directement. Veiller particulièrement à éviter que les enfants ne fixent directement le faisceau lumineux.

AVERTISSEMENT: AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS PLACER CET APPAREIL DANS UN ENDROIT HUMIDE OU MOUILLE.

ATTENTION

RISQUE
D'ELECTROCUTION NE
PASRETIRER LES VIS, A
L'EXCEPTION DES VIS DE
REPARATION UTILISATEUR
SPECIFIEES

ATTENTION: POUR EVITER TOUT RISQUE
D'ELECTROCUTION, NE PAS RETIRER LE CAPOT.
AUCUNE DES PIECES INTERIEURES N'EST REPARABLE
PAR L'UTILISATEUR, A L'EXCEPTION DE L'UNITE DE
LAMPE. POUR TOUTE REPARATION, S'ADRESSER A UN
TECHNICIEN D'ENTRETIEN QUALIFIE.

L'éclair terminé d'une flèche à l'intérieur d'un triangle indique à l'utilisateur que les pi'eces se trouvant dans l'appareil sont susceptibles de provoquer une décharge électrique.

Le point d'exclamation à l'intérieur d'un triangle indique à l'utilisateur que les instructions de fonctionnement et d'entretien sont détaillées dans les documents fournis avec le projecteur.

Precautions for using lead-free solder

1 Employing lead-free solder

"Input, Output, R/C Receiver, Key and Fan PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Indicates lead-free solder of tin, silver and copper.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldening bit, contact our service station or service ranch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettabillty, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be excoeded, remove the bit from the PWB as soon as you conurm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to tum on and off the power of the bit as required.

if a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Becareful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description		Code
ZHNDAi123250E	J	ϕ0.3mm	250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm	500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm	1kg(1roll)	BM

Location of Controls

Projector (Front and Top View)

Power (ON/OFF) buttons
Turn the power on or off.

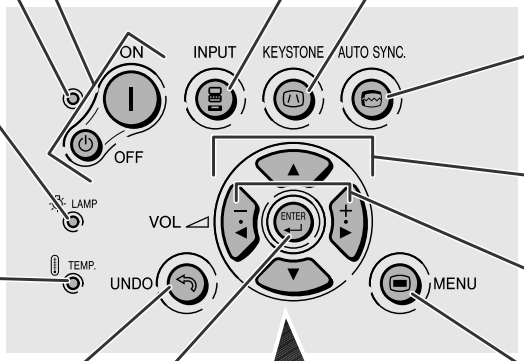
Power indicator
Illuminates red, when the projector is in standby. When the power is turned on, this indicator will illuminate green.

Lamp replacement indicator
Illuminates green indicating normal function. Replace the lamp when the indicator illuminates red.

Temperature warning indicator
When the internal temperature rises, this indicator will illuminate red.

UNDO button
For undoing an operation or returning to the default settings.

ENTER button
For setting items selected or adjusted on the menu.



INPUT button
For switching input mode 1, 2, 3 or 4.

KEYSTONE button
For adjusting Keystone or Digital Shift setting.

AUTO SYNC button
For automatically adjusting images when connected to a computer.

Adjustment buttons (▲,▼,◀,▶)
For selecting menu items.

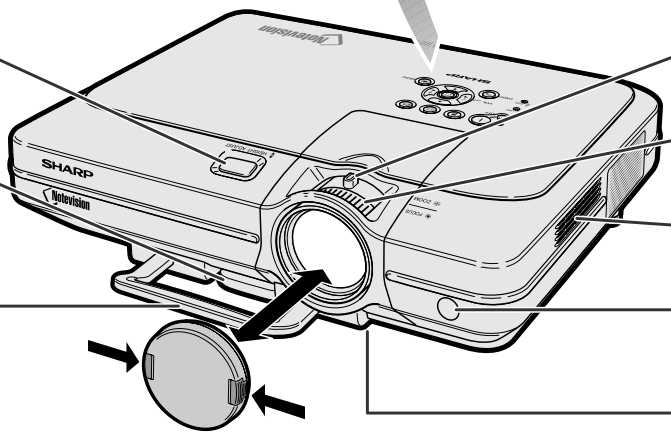
VOLUME buttons
For adjusting the speaker sound level.

MENU button
For displaying adjustment and setting screens.

HEIGHT ADJUST button

Adjustment foot

Carrying handle



Zoom knob

Focus ring

Intake vent

Remote control sensor

Air filter/cooling fan (Intake vent) (on the bottom of the projector)

Attaching and removing the lens cap

- Press on the two buttons of the lens cap and attach it on the lens. Then release the buttons to lock it in place.
- Press on the two buttons of the lens cap and remove it from the lens.

Projector (Rear View)

USB Port
Port for connecting a computer using a USB cable.

RS-232C terminal
For controlling projector using a computer.

AUDIO OUTPUT terminal
Shared audio output terminal for INPUT 1, 2, 3 and 4.

INPUT 1 terminal
Terminal for computer RGB and component signals.

OUTPUT (INPUT 1, 2) terminal
Shared computer RGB and component signals output terminal for INPUT 1 and 2.

INPUT 2 terminal
Terminal for computer RGB and component signals.

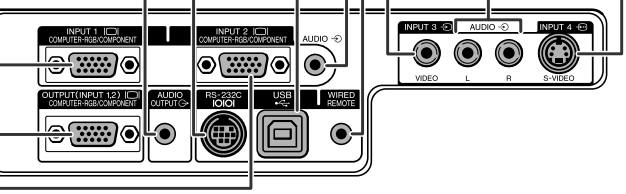
AUDIO INPUT 1, 2 terminal
Shared audio input terminal for INPUT 1 and 2.

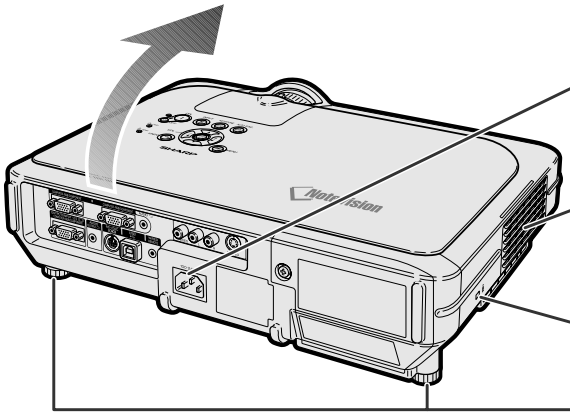
WIRED REMOTE control input terminal

INPUT 3 terminal
For connecting video equipment.

AUDIO (L/R) INPUT 3, 4 terminals
Shared audio input terminals for INPUT 3 and 4.

INPUT 4 terminal
Terminal for connecting video equipment with an S-video terminal.





AC socket

Exhaust vent

Kensington Security Standard connector

Adjustment Feet

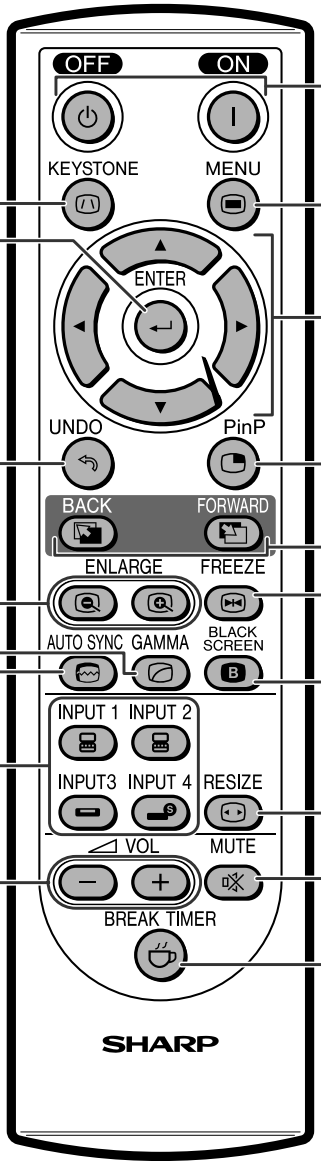
Using the Kensington Lock

- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

Carrying the projector

Before carrying the projector, fully extend the carrying handle.

Remote Control (Front View)



KEYSTONE button
For adjusting Keystone or Digital Shift setting.

ENTER button
For setting items selected or adjusted on the menu.

UNDO button
For undoing an operation or returning to the default settings.

ENLARGE (Enlarge/Reduce) buttons
For enlarging or reducing part of the image.

GAMMA button
For correcting the brightness of an image, when the images displayed are hard to see because of the brightness of the room. Four gamma modes are available to choose from.

AUTO SYNC button
For automatically adjusting images when connected to a computer.

INPUT buttons
For switching to the respective input modes.

VOLUME buttons
For adjusting the speaker sound level.

Power (ON/OFF) buttons
For turning the power on or off.

MENU button
For displaying adjustment and setting screens.

Adjustment buttons (▲, ▼, ◀, ▶)
For selecting menu items.

PinP button
For displaying dual pictures.

FORWARD/BACK buttons
Moves forward or backwards when connected to a computer using a USB cable. Same as the [Page Down] and [Page Up] keys on a computer keyboard.

FREEZE button
For freezing images.

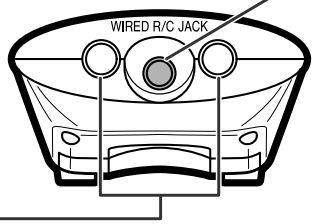
BLACK SCREEN button
For superimposing a black screen.

RESIZE button
For switching the screen size (NORMAL, BORDER, etc).

MUTE button
For temporarily turning off the sound.

BREAK TIMER button
For displaying the break timer.

Remote Control (Top View)

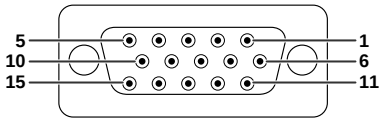


WIRED R/C JACK
For controlling the projector by connecting the remote control to the projector.

Remote control signal transmitters

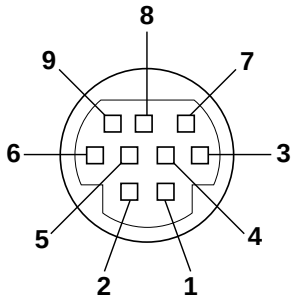
Connection Pin Assignments

INPUT 1/2 RGB and OUTPUT Signal Terminal: 15-pin Mini D-sub female connector



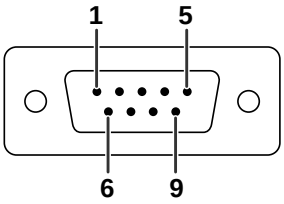
RGB Input	Component Input
1. Video input (red)	1. P_R (C_R)
2. Video input (green/sync on green)	2. Y
3. Video input (blue)	3. P_B (C_B)
4. Reserve input 1	4. Not connected
5. Composite sync	5. Not connected
6. Earth (red)	6. Earth (P_R)
7. Earth (green/sync on green)	7. Earth (Y)
8. Earth (blue)	8. Earth (P_B)
9. Not connected	9. Not connected
10. GND	10. Not connected
11. GND	11. Not connected
12. Bi-directional data	12. Not connected
13. Horizontal sync signal	13. Not connected
14. Vertical sync signal	14. Not connected
15. Data clock	15. Not connected

RS-232C Terminal: 9-pin Mini DIN female connector



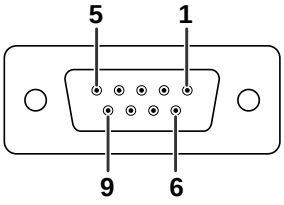
Pin No.	Signal	Name	I/O	Reference
1	VCC	+3.3V (Reserved)	Output	Not connected
2	RD	Receive Data	Input	Connected to internal circuit
3	SD	Send Data	Output	Connected to internal circuit
4	EXIR	Detector of Option Unit (Reserved)	Input	Not connected
5	SG	Signal Ground		Connected to internal circuit
6	ERX	IR Receive Signal from IR Amplifier (Reserved)	Input	Not connected
7	RS	Request to Send	Output	Not connected
8	CS	Clear to Send	Input	Not connected
9	ETX	IR Transmit Signal (Reserved)	Output	Not connected

9-pin D-sub male connector of the DIN-D-sub RS-232C adaptor



Pin No.	Signal	Name	I/O	Reference
1	CD			Not connected
2	RD	Receive Data	Input	Connected to internal circuit
3	SD	Send Data	Output	Connected to internal circuit
4	ER			Not connected
5	SG	Signal Ground		Connected to internal circuit
6	DR	Data Set Ready		Not connected
7	RS	Request to Send	Output	Connected to internal circuit
8	CS	Clear to Send	Input	Connected to internal circuit
9	CI			Not connected

RS-232C Cable recommended connection: 9-pin D-sub female connector



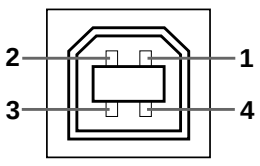
Pin No.	Signal	Pin No.	Signal
1	CD	1	CD
2	RD	2	RD
3	SD	3	SD
4	ER	4	ER
5	SG	5	SG
6	DR	6	DR
7	RS	7	RS
8	CS	8	CS
9	CI	9	CI

Note

• Depending on the system layout, it is necessary to connect Pin 4 and Pin 6 on the controlling device (e.g. PC).

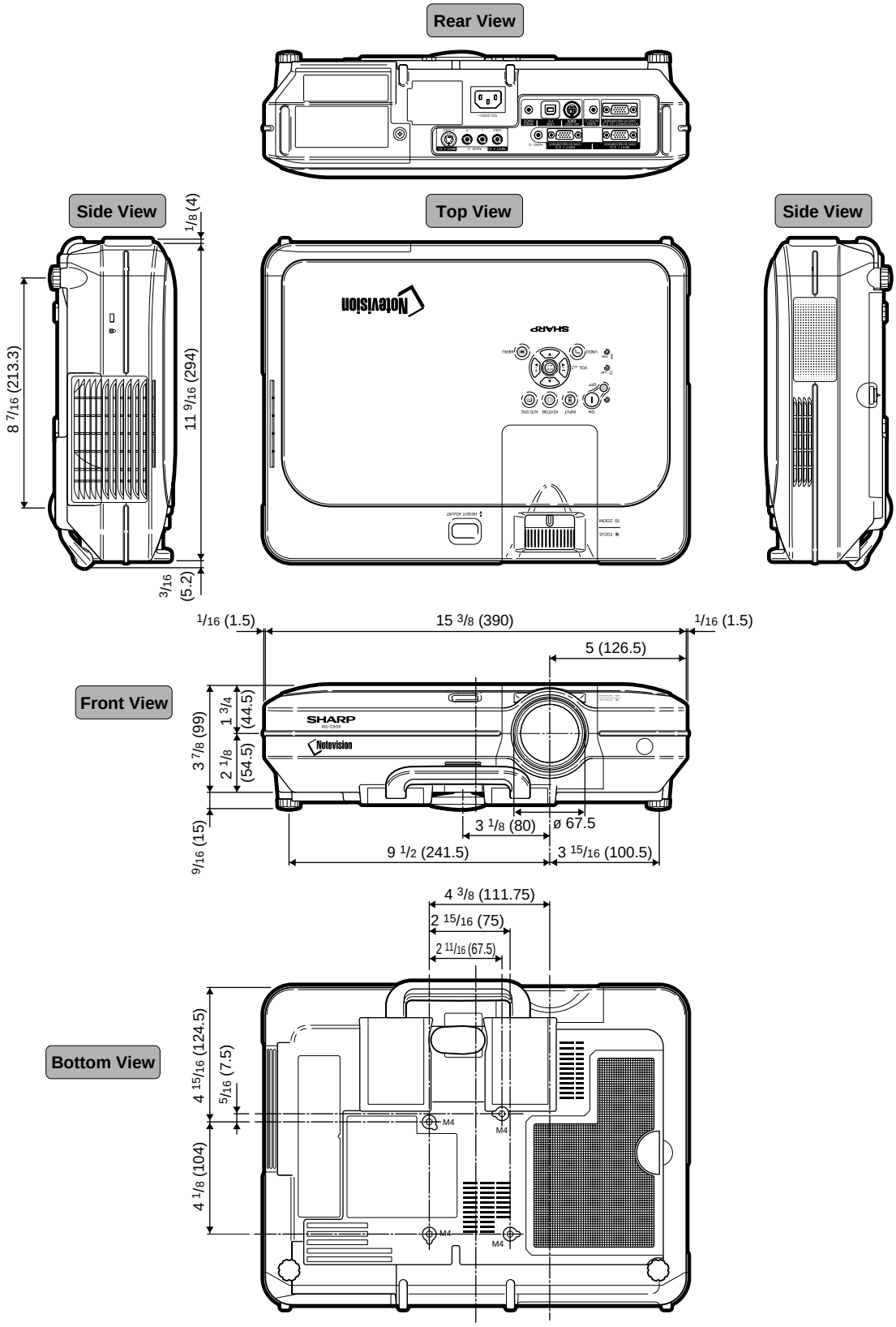
Projector Pin No.	PC Pin No.
4	4
5	5
6	6

USB Port: 4 pin B-type USB connector



Pin No.	Signal	Name
1	VCC	USB power
2	USB–	USB data–
3	USB+	USB data+
4	SG	Signal Ground

Dimensions



Units: inches (mm)

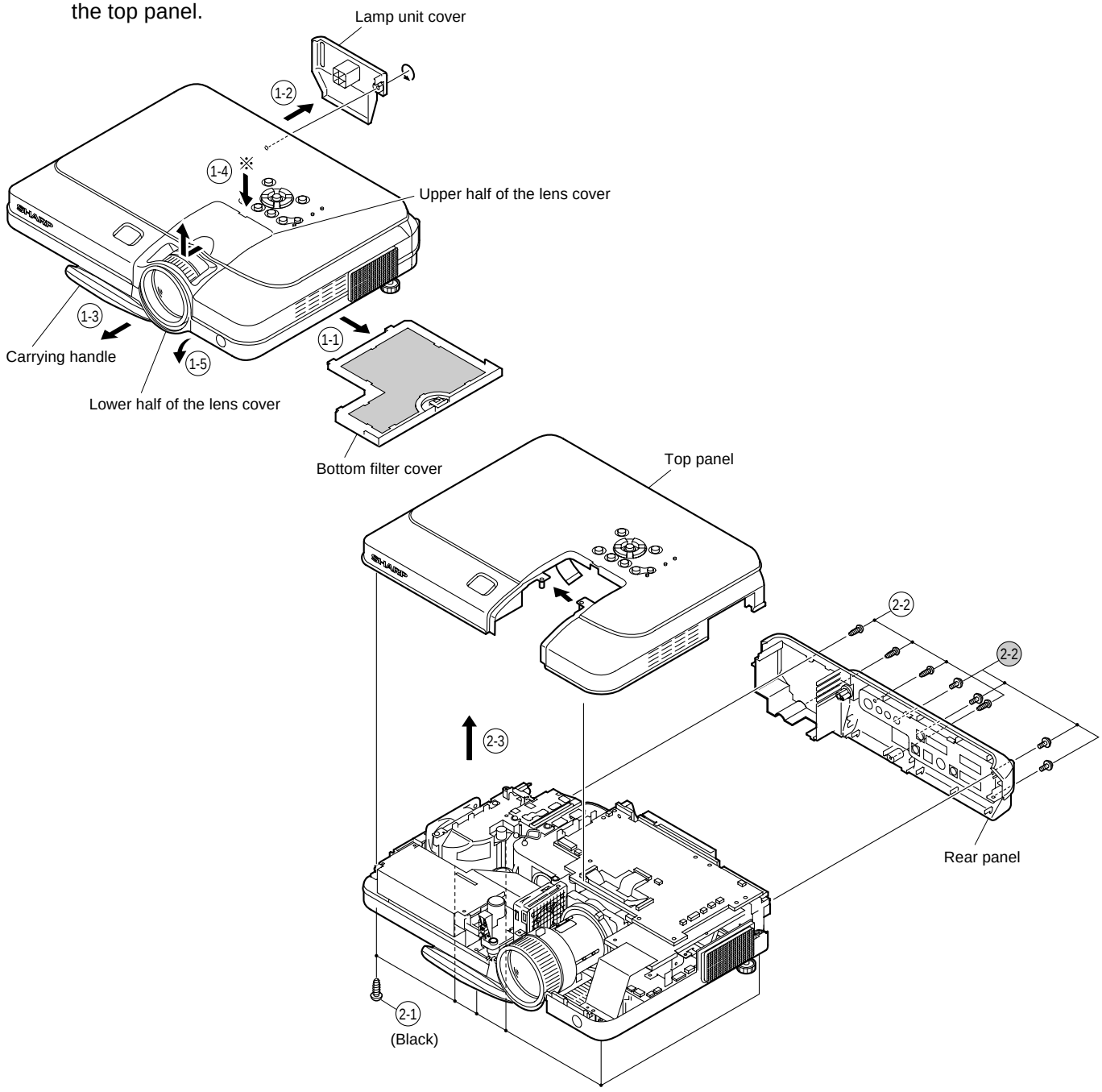
REMOVING OF MAJOR PARTS

1. Removal of the bottom filter cover and lamp unit cover

1-1. Detach the bottom filter cover.
1-2. Loosen the lock screw from the lamp unit cover, and detach the lamp unit cover.
1-3. Pull out the carrying handle.
1-4. Press the ∗-marked spot of the upper half of the lens cover to unhook the claw, and detach the upper lens cover.
1-5. Detach the lower half of the lens cover.

2. Removal of the top panel and rear panel

2-1. Remove the six lock screws (black) from the top panel.
2-2. Remove the eight lock screws from the rear panel and detach the rear panel.
(2-2:XEBSF30P12000, 2-2:XBBSF30P10000)
2-3. Slowly lift the top panel and disconnect the connector from the key PWB. Remove another screw and detach the top panel.

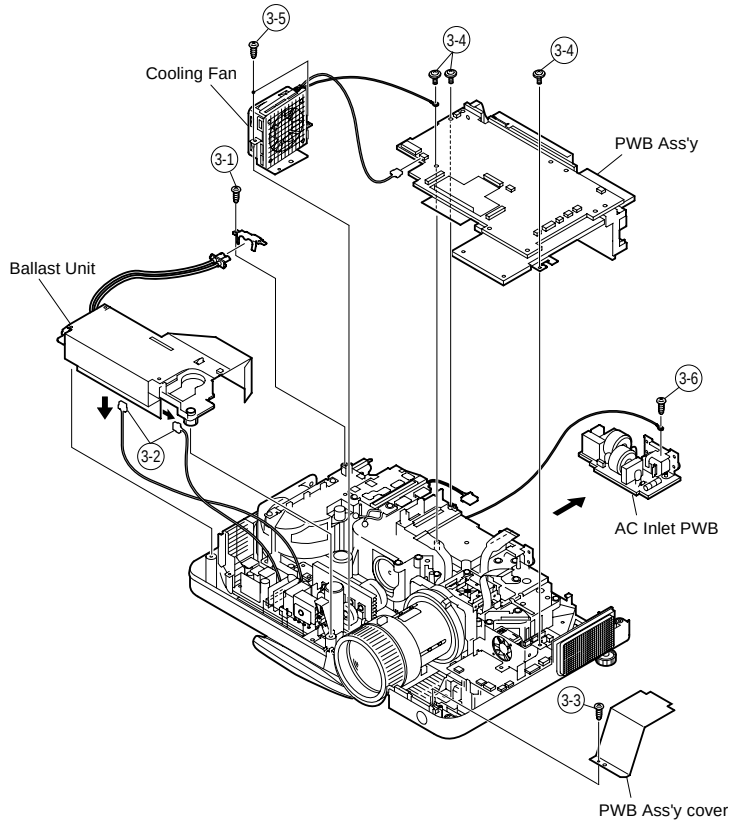


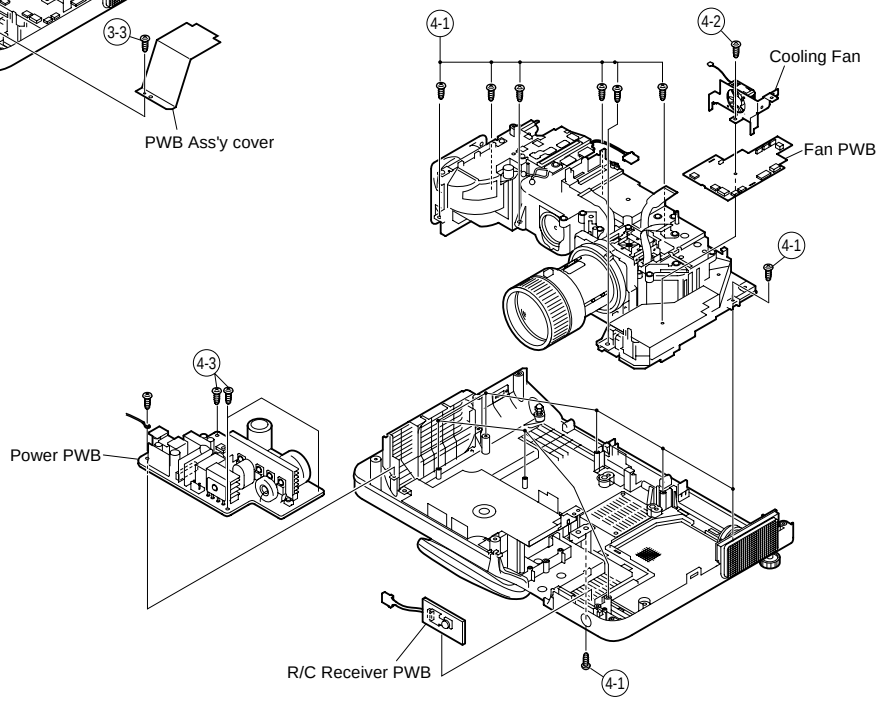
3. Removal of the PWBs

3-1. Remove the lock screw from the lamp socket angle. Detach the lamp socket angle.
3-2. Lift the ballast unit. Disconnect the connector and detach the ballast unit.
3-3. Remove the lock screw from the PWB unit cover and detach the cover.
3-4. Remove the three lock screws from the PWB assembly, disconnect the connector and detach the PWB assembly.
3-5. Remove the two lock screws from the cooling fan, disconnect the connector and detach the cooling fan.
3-6. Remove the lock screw from the grounding terminal, disconnect the connector and detach the AC inlet PWB.

4. Removal of the optical mechanism, fan PWB, power PWB and R/C receiver PWB

4-1. Remove the eight lock screws from the optical mechanism, and take out the optical mechanism.
4-2. Remove the lock screw from the cooling fan, and detach the cooling fan and fan PWB.
4-3. Remove the four lock screws from the power PWB, and detach the power PWB.
4-4. Take out the R/C receiver PWB.





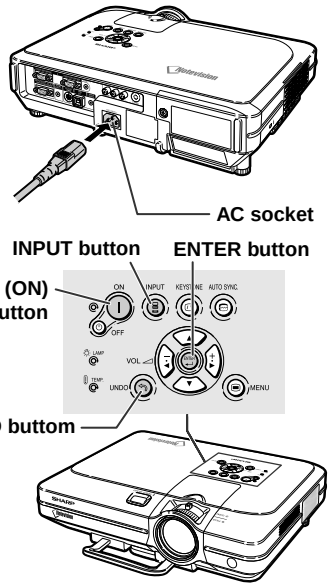
RESETING THE LAMP TIMER

1 Connect the power cord.

- Plug the power cord into the AC socket of the projector.

2 Reset the lamp timer.

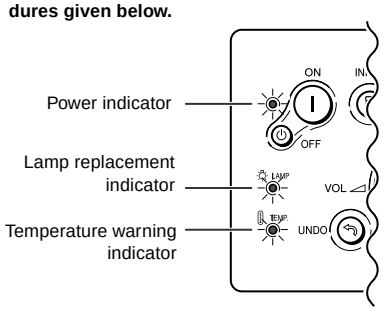
- While pressing simultaneously INPUT, ENTER, and UNDO on the projector, press ON on the projector.
- "LAMP 100%" is displayed, indicating that the lamp timer is reset.



Info

- Make sure to reset the lamp timer only when replacing the lamp. If you reset the lamp timer and continue to use the same lamp, this may cause the lamp to become damaged or explode.

■ **The warning lights on the projector indicate problems inside the projector.**
■ **If a problem occurs, either the temperature warning indicator or the lamp replacement indicator will illuminate red, and the power will turn off. After the power has been turned off, follow the procedures given below.**



About the temperature warning indicator

If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP." will blink in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink, the cooling fan will run for further 90 seconds, then the power will be shut off. After "TEMP." appears, be sure to perform the following measures.

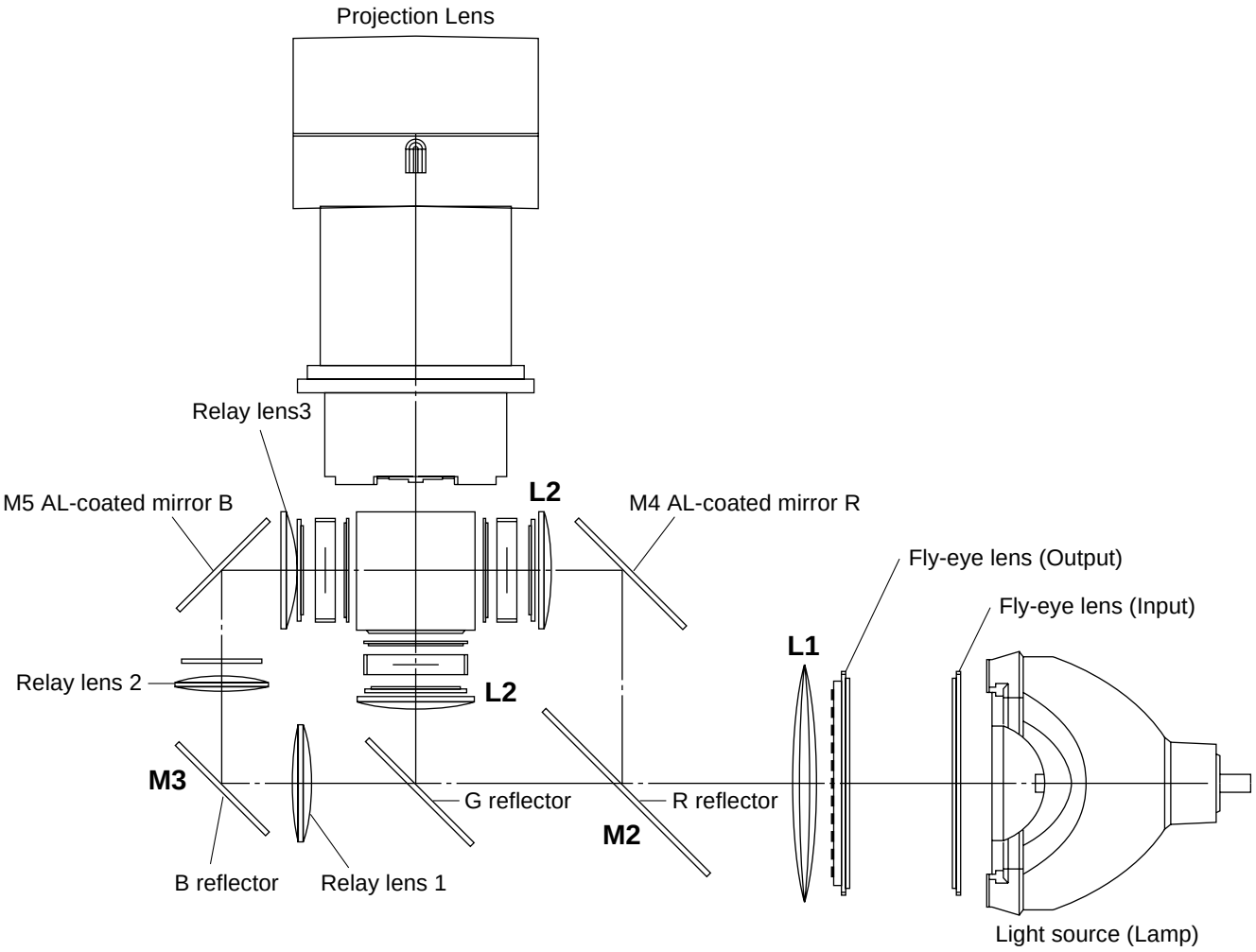
About the lamp replacement indicator

■ The lamp life becomes 0%, when used for approximately 2,000 hours with "ON" in "Power Save" or when used for approximately 1,500 hours with "OFF" in "Power Save".
■ When the remaining lamp life becomes 6% or less, "" will be displayed on the screen in yellow. When the percentage becomes 0%, "" will change to "" (red), the lamp will automatically turn off and then the projector as well. At this time, the lamp replacement indicator will illuminate in red.
■ If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.

Maintenance indicator			Condition	Problem	Possible Solution
Temperature warning indicator	Normal	Abnormal	The internal temperature is abnormally high.	Blocked air intake	• Relocate the projector to an area with proper ventilation.
	Off	Red on/ Power off		• Cooling fan breakdown • Internal circuit failure • Clogged air intake	• Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center for repair.
Lamp replacement indicator	Green on (Green blinks when the lamp is active.)	Red blinks/ Red on	Time to change the lamp	• Remaining lamp life becomes 6% or under.	• Carefully replace the lamp. • Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center for repair. • Please exercise care when replacing the lamp.
		Red on/ Power off	The lamp does not illuminate.	• Burnt-out lamp • Lamp circuit failure	
Power indicator	Green on/ Red on	Red blinks	The power indicator blinks in red when the projector is on.	• The filter cover, lamp unit cover or lens cover is open.	• Securely install the filter cover. • If the power indicator blinks even when the filter cover is securely installed, contact your nearest Sharp Authorized Projector Dealer or Service Center for advice.

THE OPTICAL UNIT OUTLINE

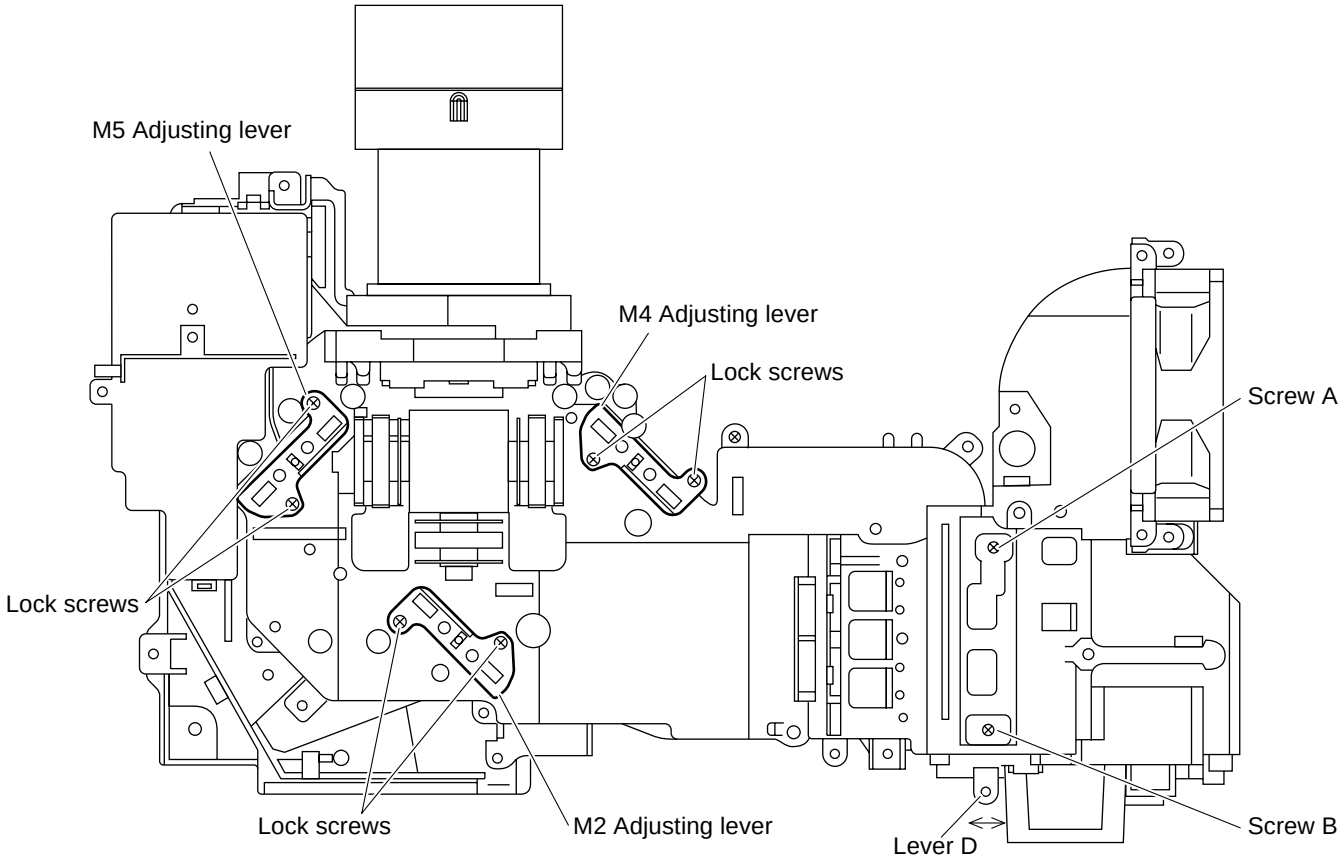
Layout for proper setup of the optical components and parts (top view)



Adjusting the mirrors

This adjustment is needed when any of the optical parts of the optical mechanism has been replaced.

1. Disconnect the flat cables from all the LCD panels.
2. Light up the lamp.
3. Project a white-light image and check to see if there is any color tint in any direction. If any, use the M2, M4 and M5 adjusting levers.
4. Loosen the adjusting lever lock screws, make adjustments, and tighten up the lock screws.



Correcting color irregularities on white-only screen when replacing the lamp

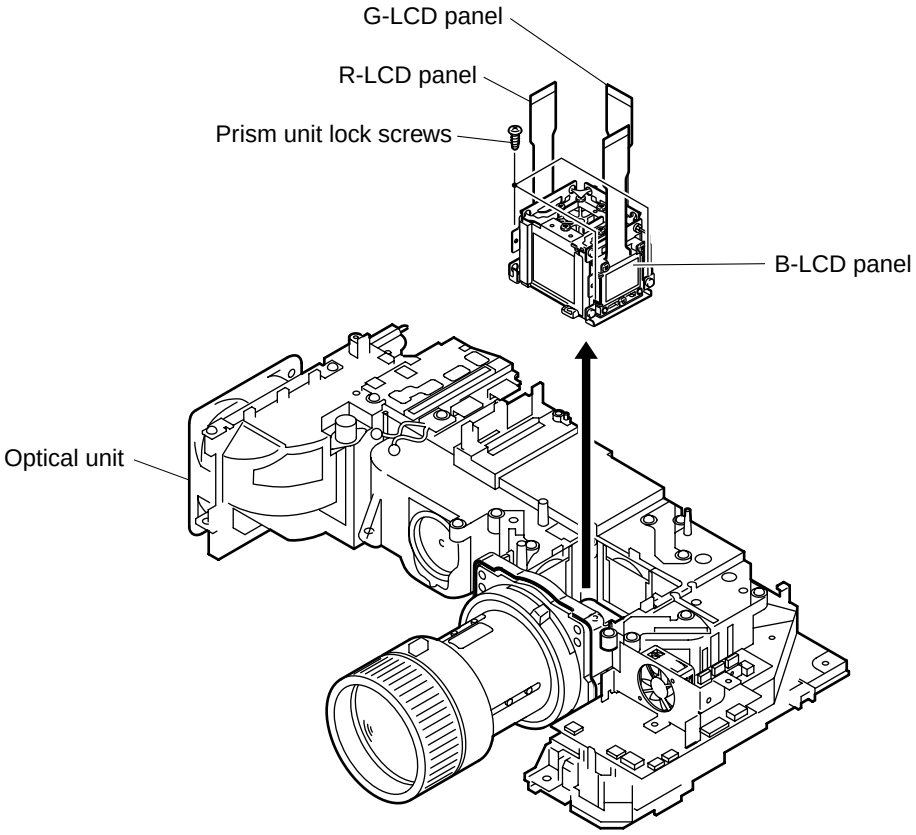
If color irregularities are found at the right and left on a white-only screen after replacing the lamp, it is necessary to readjust the optical axis of the new lamp. Take the following steps.

1. Open the lamp cover and loosen the screws A and B at the top of the lamp.
2. Using a screwdriver or the like, move the lever D in the arrow direction.
3. Temporarily fix the screws A and B, close the lamp cover, and check the white-only screen again for color irregularities.
4. Repeat the above steps 1 and 2 until there will be no color irregularities. Now tighten up the screws A and B.
5. Finally secure the lamp cover back in position.

Replacing the prism unit

1. Remove the four lock screws, and take the prism holder unit out of the optical unit.
2. Replace the prism unit with new one. Take the above step 1 in reverse order.

Note: Even if just one of the LCD panels is defective, it is necessary to replace the entire prism unit. Do not replace just the defective LCD panel only. Under the present circumstances, please do not touch the display part of LCD.



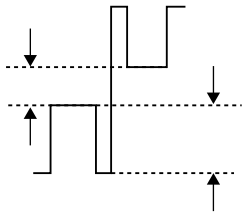
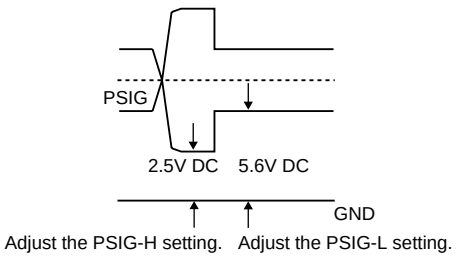
How to Release the System Lock

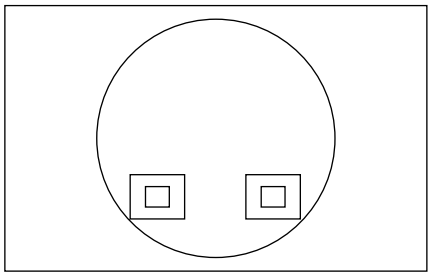
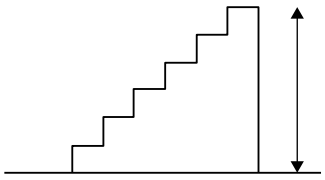
Turn on the power. If the system lock is applied, the system-resetting screen appears. Press the following keys in this order.

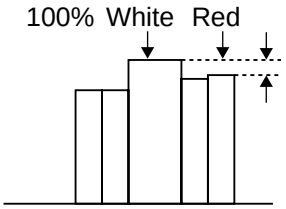
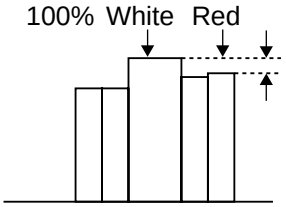
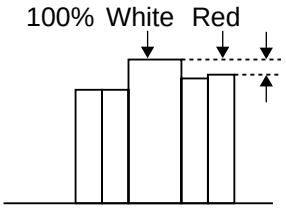
MENU → ENTER → ENTER → MENU → UNDO → UNDO → MENU

After pressing the MENU key first, press the remaining six keys within 10 seconds.

ELECTRICAL ADJUSTMENT

No.	Adjustment Items	Adjustment Conditions	Adjustment Procedures
1	Initialization of EEPROM	1. Turn on the power (the lamp lights up) and warm up the system for 15 minutes.	1. Make the following settings. Press S2601 to enter the process mode, and execute S2 on the SSS menu. Now the EEPROM, except for the PC I/F unit, is initialized. Do not execute S1, or the PC I/F unit itself will be initialized. (The PC I/F unit has been factory-adjusted.) To adjust the PC I/F unit, refer to "How to Adjust the PC I/F unit" on the last page.
2	Adjustment of RGB1 black level signal amplitude	1. Select the following group and subjects. Group: OUTPUT1 Subject: G1-BLK, G1-GAIN For the color R, select the subjects R1-BLK and R1-GAIN. For the color B, select the subjects B1-BLK and B1-GAIN. 2. Make sure the process adjustment color bars are displayed. 3. For the color G, connect a oscilloscope to pin (2) of P1301. 4. For the colors R and B, connect the oscilloscope to pin (1) of P1301 and pin (3) of P1301, respectively.	1. Select the subject G1-GAIN. Using the set's control switch or the remote controller button, adjust the setting so that the signal amplitude is 4.0 Vp-p±0.05 V. 2. Select the subject G1-BLK. Using the set's control switch or the remote controller button, adjust the setting so that the white-to-white level is 1.8 Vp-p±0.1 V. 3. Do the same for the other colors R and B.  ∗ The G1 subjects are linked with the R1 and B1 subjects. When the G1-BLK setting has been changed, therefore, the R1-BLK and B1-BLK settings vary themselves accordingly. When the G1-GAIN setting has been changed, equally, the R1-GAIN and B1-GAIN settings vary themselves accordingly. First make the G1 settings and then readjust the R1 and B1 settings as required.
3	Adjustment of PSIG	1. Select the following group and subjects. Group: OUTPUT2 Subject: PSIG-H, PSIG-L Make sure the PSIG-H and PSIG-L settings are 64 and 100, respectively.	1. Get the PSIG waveform displayed. (Feed the XGA signal.) 

No.	Adjustment Items	Adjustment Conditions	Adjustment Procedures
4	Checking of sample-and-hold pulse phase	1. Feed the XGA-mode 75-Hz black signal. 2. Select the following group and subject. Group: OUTPUT3 Subject: GCK-PHASE	1. Check the fixed value. Fixed value: 6
5	Adjustment of RGB counter-voltage	1. Feed the counter-voltage adjustment signal (XGA) prepared by the Technical Department. 2. Select the following group and subjects. Group: OUTPUT3 Subject: RC (R), GC (G), BC (B)	1. Using the set's control switch or the remote controller button, adjust the settings to minimize flickers. 2. If the results are inconsistent at the center and on both sides onscreen, readjust the settings to get the same results on both sides.
6	Adjustment of RGB gradation reproduction	1. Feed the SMPTE pattern signal. 2. Select the following group and subject. Group: OUTPUT1 Subject: G1-BLK	1. Confirm that the 100% and 95% white gradation as well as the 0% and 5% black gradation are discernible. 2. If the white gradation looks differently, finely adjust the G1-BLK setting. 
7	Adjustment of RGB white balance	1. Feed the 32-step gray scale signal (XGA, 60 Hz). 2. Select the following group and subjects. Group: OUTPUT1 Subjects: R1-BLK (R), B1-BLK (B)	1. Adjust the R1-BLK and B1-BLK settings to have the specified gradation balance (according to the standard monitor).
8	Adjustment of video AGC	1. Feed the NTSC 10-step gray scale signal. 2. Select the following group and subject. Group: VIDEO Subject: AGC-ADJ 3. Connect the oscilloscope between TP4501 and TP4502	1. Using the set's control switch or the remote controller button, adjust the setting so that the white-to-black level is 0.72 Vp-p±0.01 V. 
9	Adjustment of video brightness/ contrast	1. Feed the NTSC100% window pattern signal. 2. Select the following group and subjects. Group: VIDEO Subject: AUTO, PICTURE/BRIGHT	1. Feed the signal. Using the set's control switch or the remote controller button, select the subject AUTO. The setting will adjust itself. 2. Then adjust the PICTURE/BRIGHT setting until the signal becomes bitless.

No.	Adjustment Items	Adjustment Conditions	Adjustment Procedures
10	Adjustment of video tint	1. Feed the split color bar signal. 2. Select the following group and subject. Group: VIDEO1 Subject: TINT	1. Confirm the fixed value. Fixed value: 128
11	Adjustment of NTSC color saturation	1. Feed the split color bar signal. 2. Select the following group and subject. Group: VIDEO Subject: N-COLOR ∗ Connect the oscilloscope to pin (1) of P1301.	1. Confirm the fixed value. Fixed value: 54 (Reference: 0.4 Vp-p) 
12	Adjustment of PAL color saturation	1. Feed the PAL color bar signal. 2. Select the following group and subject. Group: VIDEO Subject: P-COLOR ∗ Connect the oscilloscope to pin (1) of P1301.	1. Confirm the fixed value. Fixed value: 51 (Reference: 0.4 Vp-p) 
13	Adjustment of SECAM color saturation	1. Feed the SECAM color bar signal. 2. Select the following group and subject. Group: VIDEO Subject: S-COLOR ∗ Connect the oscilloscope to pin (1) of P1301.	1. Confirm the fixed value. Fixed value: 48 (Reference: 0.5 Vp-p) 
14	Adjustment of video white balance	1. Feed the NTSC monoscope pattern signal. 2. Select the following group and subjects. Group: VIDEO Subjects: V-R1-BLK, V-B1-BLK	1. Using the set's control switch or the remote controller button, adjust the settings to have the same white balance as on the standard monitor.
15	Adjustment of COMPO brightness	1. Feed the 0% gray pattern signal (480I). 2. Select the following group and subject. Group: COMPO Subject: G-BRIGHT	1. Feed the signal to INPUT 1. Adjust the setting so that some bits should be missing onscreen.

No.	Adjustment Items	Adjustment Conditions	Adjustment Procedures
16	Adjustment of COMPO CB offset and CR offset	1. Feed the Y-0% brightness, Cb and Cr 0% white pattern color difference signal (480I). 2. Select the following group and subject. Group: COMPO Subject: AUTO	1. Feed the signal. Using the set's control switch or the remote controller button, select the subject AUTO. The setting will adjust itself.
17	Adjustment of COMPO white balance	1. Feed the DTV monoscope pattern signal. 2. Select the following group and subjects. Group: DLP Subjects: C-R1-BLK, C-B1-BLK	1. Using the set's control switch or the remote controller button, adjust the settings to have the same white balance as on the standard monitor.
18	Adjustment of sRGB white balance	1. Feed the RGB 50% gray pattern signal. 2. Select the following group and subjects. Group: OUTPUT1 Subjects: S-R1-BLK, S-R1-GAIN, S-G1-BLK, S-G1-GAIN, S-B1-BLK, S-B1-GAIN 3. Have the BM-5 brightness meter and the standard white board at hand.	1. Make the S-R1-BLK setting the same as the R1-BLK one. Make the S-G1-BLK setting the same as the R1-BLK one. Make the S-B1-BLK setting the same as the R1-BLK one. Make the S-R1-GAIN setting the same as the R1-GAIN one. 2. Adjust the S-B1-GAIN and S-G1-GAIN settings so that the chromaticity on the brightness meter should be as follows. x: .313±7/1000 y: .350±10/1000

Teaching intervals: 18
Brightness adjustable direction: Brightness up by increasing the setting (to be checked)
Adjusting points: Three dimension (to be checked)
Gradation 4 (to be checked)
Gradation 5 (to be checked)
Gradation 6 (to be checked)
Other gradations not to be checked
Adjustable colors: White adjustable (to be checked)

(2) Color irregularity correction
Conditions setup
Correction procedure settings

Gradation 7: 2. Lower-gradation correction value to be used.
Gradation 6: 0. Correction with correction coefficient.
Gradation 5: 0. Correction with correction coefficient.
Gradation 4: 0. Correction with correction coefficient.
Gradation 3: 1. Upper-gradation correction value to be used.
Gradation 2: 1. Upper-gradation correction value to be used.
Gradation 1: 1. Upper-gradation correction value to be used.
Gradation 0: 1. Upper-gradation correction value to be used.

For the model in question, select the name entered in (2) to start the color irregularity correction. If the set has its optical characteristics rather different from the standard ones or if the set has some color irregularity lines missing, do the teaching for that set in particular. Use its specified correction coefficients in making the adjustment.

<table>
<tr><th>No.</th><th>Adjustment Items</th><th>Adjustment Conditions</th><th>Adjustment Procedures</th></tr>
<tr><td>19</td><td>Checking and readjustment of white balance</td><td>1. The adjusting conditions for each item are as follows:
For RGB input, see Item 7.
For video input, see Item 13.
For COMPO input, see Item 16.</td><td>1. Make sure the white balance is as specified on the standard monitor. For readjustment, proceed in the order of RGB input, video input and COMPO input.</td></tr>
<tr><td>20</td><td>Checking color-related performance</td><td>1. Receive the color bar signal.</td><td>1. Select L1 in the process mode. Check the performance of color and tint.</td></tr>
<tr><td>21</td><td>Checking of picture-related performance</td><td>1. Receive the monoscope pattern signal.</td><td>1. Select L2 in the process mode. Check Picture, Brightness and Sharpness.</td></tr>
<tr><td>22</td><td>Checking of RGB performance</td><td>1. Receive the RGB signal.</td><td>1. Select L4 on the process mode. Check Picture, Brightness, Red, Blue, Clock, Phase, H-POS and V-POS.</td></tr>
<tr><td>23</td><td>Checking of off-timer performance</td><td></td><td>1. Select OFF in the process mode. Make sure that the off-timer starts with 5-minute display, counts down 1 minute for 1 second, and turns off when 0 minute is displayed.</td></tr>
<tr><td>24</td><td>Checking of thermistor performance</td><td>1. Heat the thermistor with a hair dryer.</td><td>1. Make sure the temperature is displayed.</td></tr>
<tr><td>25</td><td>Automatic sync operation</td><td>1. Receive the phase checking pattern signal.</td><td>1. Make sure that Clock, Phase, H-POS and V-POS can be automatically adjusted in the VGA/S-VGA/XGA mode.</td></tr>
<tr><td>26</td><td>Checking of USB performance</td><td>1. Using the USB cable, connect the set to a personal computer.</td><td>1. Using the remote controller, make sure that feed and return operations are effective on the screen of the personal computer.</td></tr>
<tr><td>27</td><td>Factory settings</td><td></td><td>1. Make the following settings.
<table>
<tr><th>Destination</th><th>Process adjustment</th><th>Remote controller settings</th></tr>
<tr><td>North-American</td><td>S4</td><td>Factory Setting 4</td></tr>
<tr><td>Other</td><td>S3</td><td>Factory Setting 3</td></tr>
</table>
</td></tr>
</table>

How to Adjust the PC I/F unit

1. Initialization of EEPROM
   1) Press SW2601 to enter the process mode.
   2) Execute S1 on the SSS menu. (By S1, the PC board alone is initialized. Do not execute S2, or all the adjustment data, except for the PC I/F unit, is initialized.)
   3) Make sure that the program version "VER. XXX" on the SPECIAL menu is the latest one.
2. Level adjustments

   2-1. Setting the oscilloscope

   Set the oscilloscope's range to DC1V/div and 5µ S/div.

   2-2. Connecting the PC interface
   1) Connect the specified cable between ANALOG OUTPUT (on the signal generator) and DSUB connector (INPUT1 on the projector).
   2) Set the projector's input selector to INPUT1.
   3) Set the signal generator to XGA mode (1024x768, 60Hz, 32-step gradation). Also adjust the output amplitude (between black and white) to 700 mVp-p (terminated with a 75-ohm impedance).
   4) Turn on the power.

   2-3. Adjusting items
   1) Adjustment of RGB drive/gain
      (1) Feed the window pattern signal that has 100% and 0% signals.
      (2) Select AUTO among the A/D items in the process mode and make the adjustments.

● Entering the adjustment process mode

There are follwing two methods.

- Press the S2601 on the OUTPUT PWB unit.
- Press the follwing keys in this order.

  ON→Adj up→Adj down→Adj up→Adj down→ENTER→ENTER→MENU

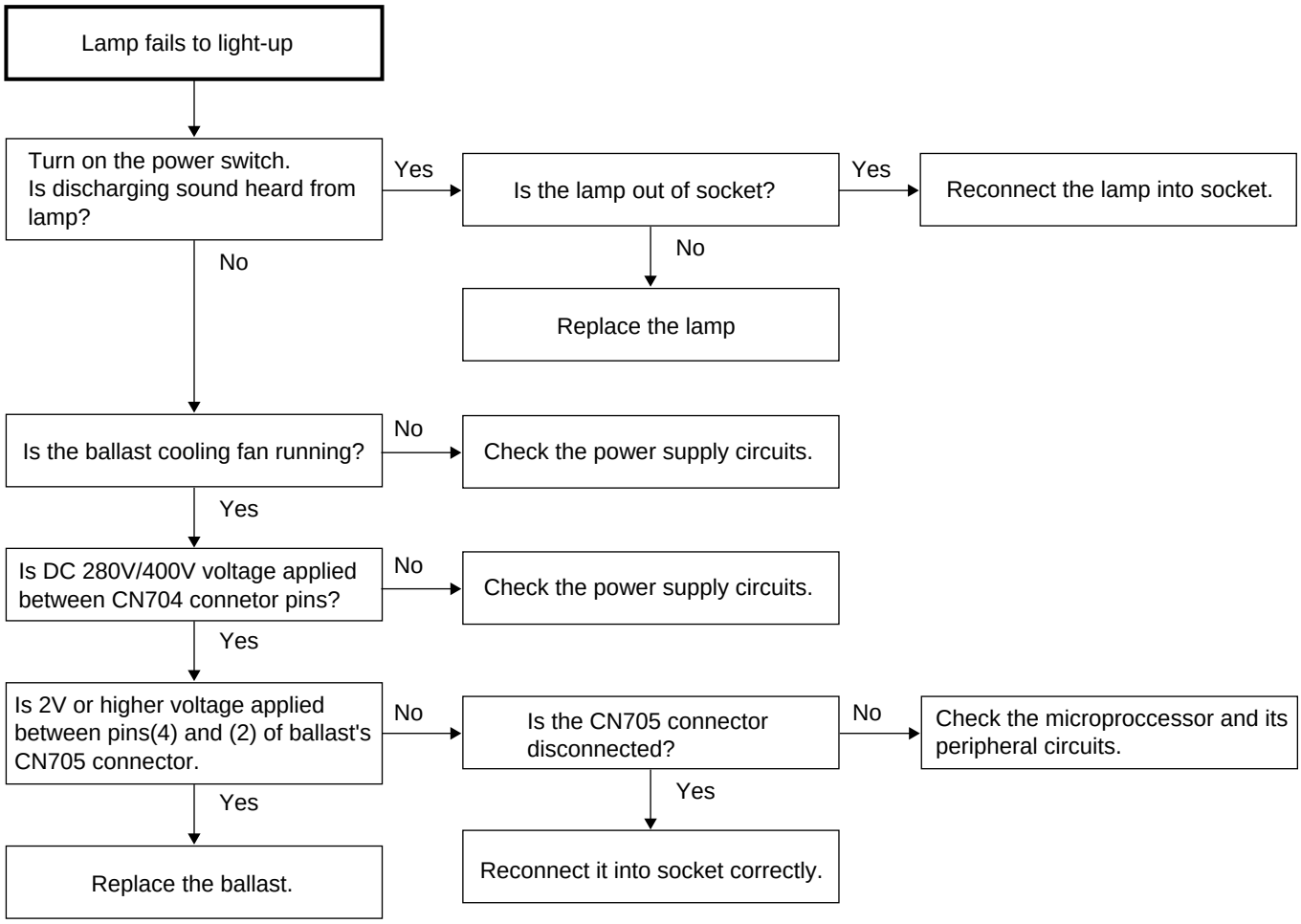
● Adjustment mode process menu

Group	Sub Group	Subject
Adjust PC Image	A/D	R-BRIGHT G-BRIGHT B-BRIGHT R-D B-D G-D AD-AUT
Adjust RGB Image	OUTPUT1	R1-BLK R1-GAIN G1-BLK G1-GAIN B1-BLK B1-GAIN S-R1-BLK S-R1-GAIN S-G1-BLK S-G1-GAIN S-B1-BLK S-B1-GAIN
Adjust Panel Drive	OUTPUT2	PSIG-H PSIG-L
Adjust Commn Voltage	OUTPUT3	RC GC BC GCK-PHASE
Adjust Video Image	VIDEO	PICTURE BRIGHT TINT N-COLOR P-COLOR S-COLOR AGC-CNT AGC-ADJ STAT-GAIN V-R1-BLK V-B1-BLK VIDEO-AUTO
Adjust Component Image	COMP	G-BRIGHT CB-OFFSET CR-OFFSET C-R1-BLK C-B1-BLK COMPO-AUTO

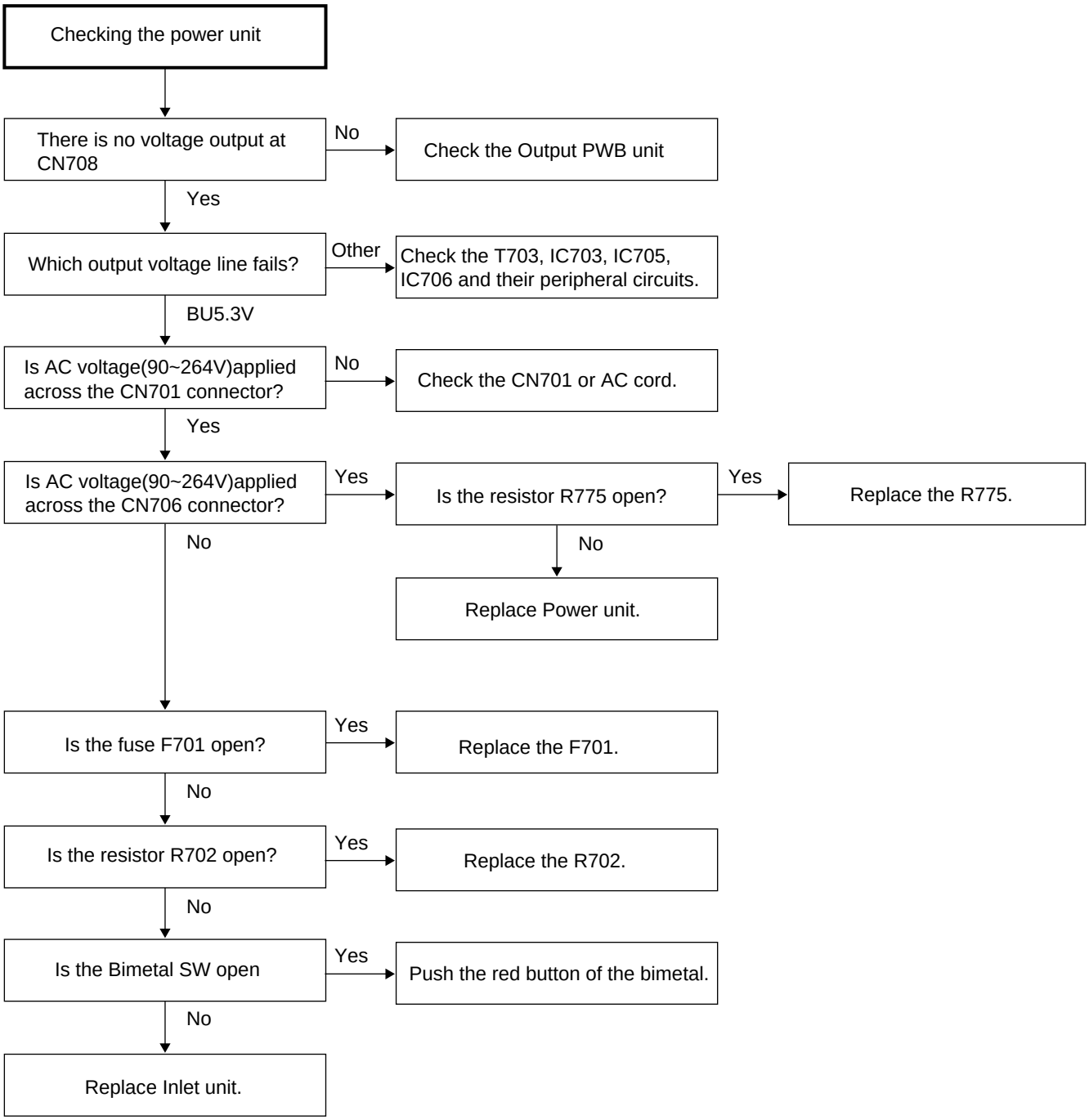
Group	Sub Group	Subject	
Process Mode	LINE	L1 L2 L4 OFF TEMP OFF SENSOR CHECK	
Initial Setting	SSS	TIME S1 S2 S3 S4 S5	
Sample Pattern	PATTERN	RGB RGB[50] CROSS FOCUS STEP COLOR CHR	
Adjust CVIC	CVIC	PROGRESSIVE	MODE IP MDSW PTGSW C-TESTSW C-ILG-LY C-MOD-LY C-VE-LV
		ENHANCE-VIDE	ENH-PLUS ENH-MINUS DFC
		ENHANCE-HDTV	ENH-PLUS ENH-MINUS DFC
		ENHANCE-RGB	MODE ENH-GAIN ENH-PLUS
		SCREEN	CUBIC-RGB CUBIC-VIDEO
		NR	YNR-LEVEL YNR-K YNR-FSEL CNR-LEVEL CNR-K CNR-FSEL CNR-FILSW
		PTG	TBL-NO TESTSW ENABLE MV-F VDDYP

Group	Sub Group	Subject	
Adjust CVIC		CMS-HUE	CMS-HUE-R
			CMS-HUE-Y
			CMS-HUE-G
			CMS-HUE-C
			CMS-HUE-B
			CMS-HUE-M
		CMS-SAT	CMS-SAT-R
			CMS-SAT-Y
			CMS-SAT-G
			CMS-SAT-C
			CMS-SAT-B
			CMS-SAT-M
		CMS-VAL	CMS-VAL-R
			CMS-VAL-Y
			CMS-VAL-G
			CMS-VAL-C
			CMS-VAL-B
			CMS-VAL-M
			DEGAMMA
Adust Digital Convergence	CONVER	CC	
		R-CNV-H	
		G-CNV-H	
		B-CNV-H	
		R-CNV-V	
		G-CNV-V	
		B-CNV-V	
Vesion Cehck etc	SPECIAL	IPL	
		IPL2	
		E2PROM	
		ADR RD/WR	
		USB-MODE	

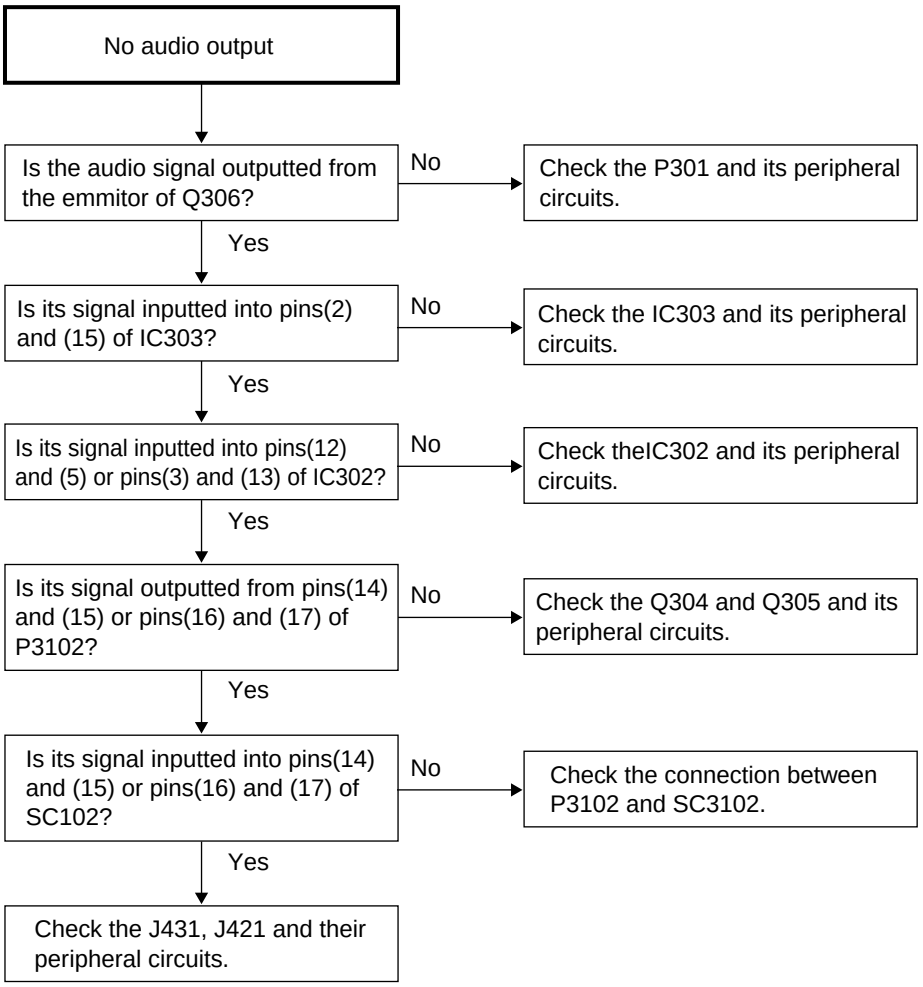
TROUBLE SHOOTING TABLE



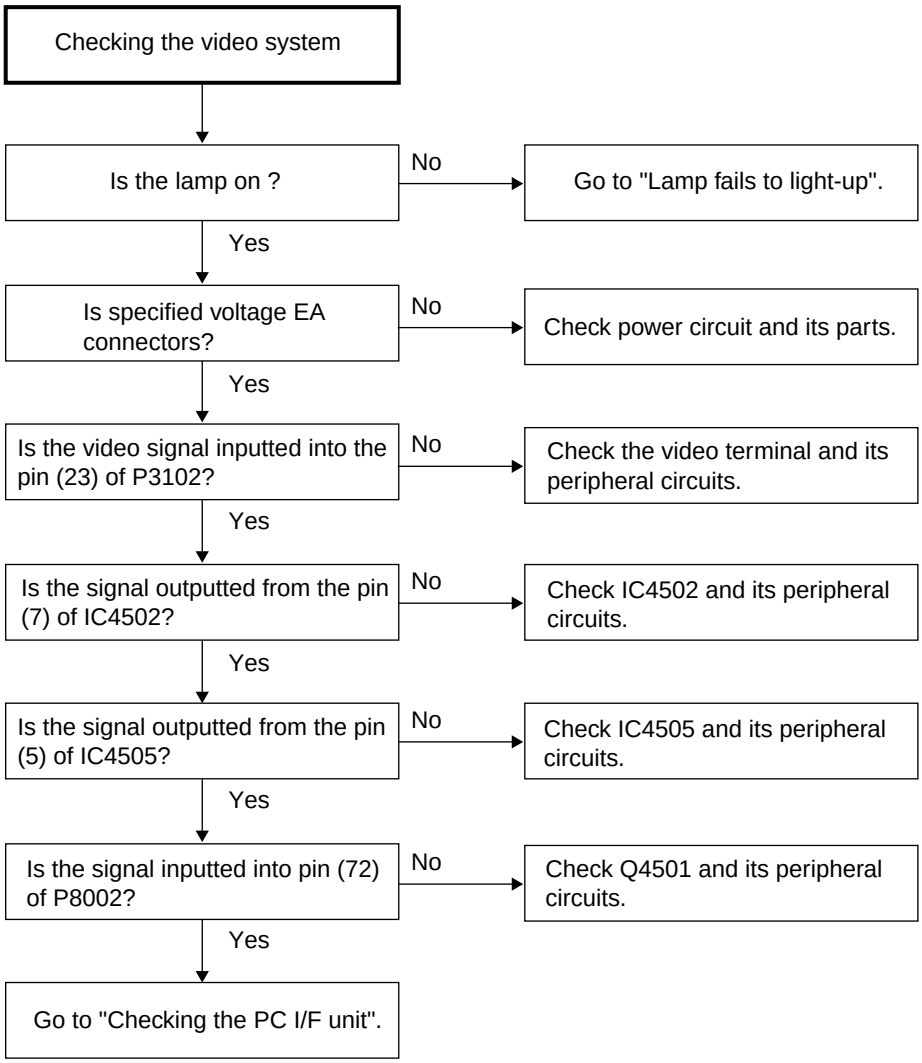
TROUBLE SHOOTING TABLE (Continued)



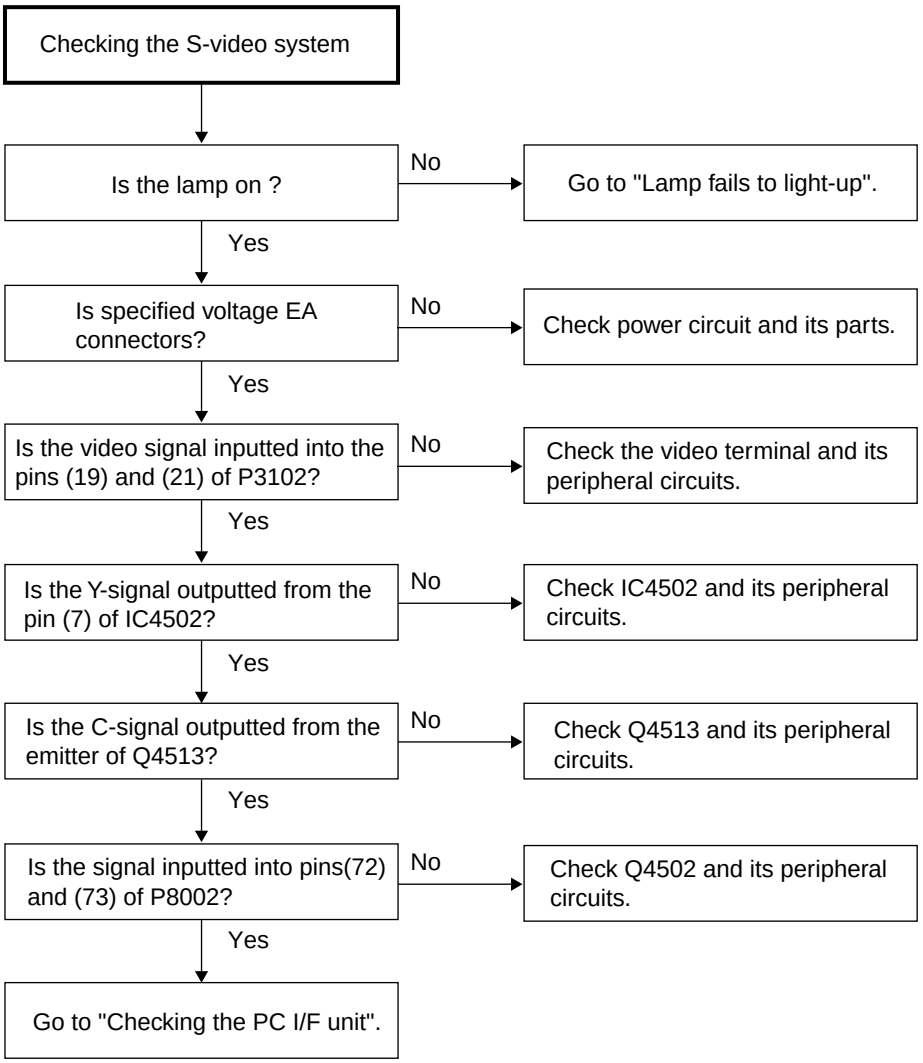
TROUBLE SHOOTING TABLE (Continued)


No audio output
Is the audio signal outputted from the emmitor of Q306?
No
Check the P301 and its peripheral circuits.
Yes
Is its signal inputted into pins(2) and (15) of IC303?
No
Check the IC303 and its peripheral circuits.
Yes
Is its signal inputted into pins(12) and (5) or pins(3) and (13) of IC302?
No
Check theIC302 and its peripheral circuits.
Yes
Is its signal outputted from pins(14) and (15) or pins(16) and (17) of P3102?
No
Check the Q304 and Q305 and its peripheral circuits.
Yes
Is its signal inputted into pins(14) and (15) or pins(16) and (17) of SC102?
No
Check the connection between P3102 and SC3102.
Yes
Check the J431, J421 and their peripheral circuits.

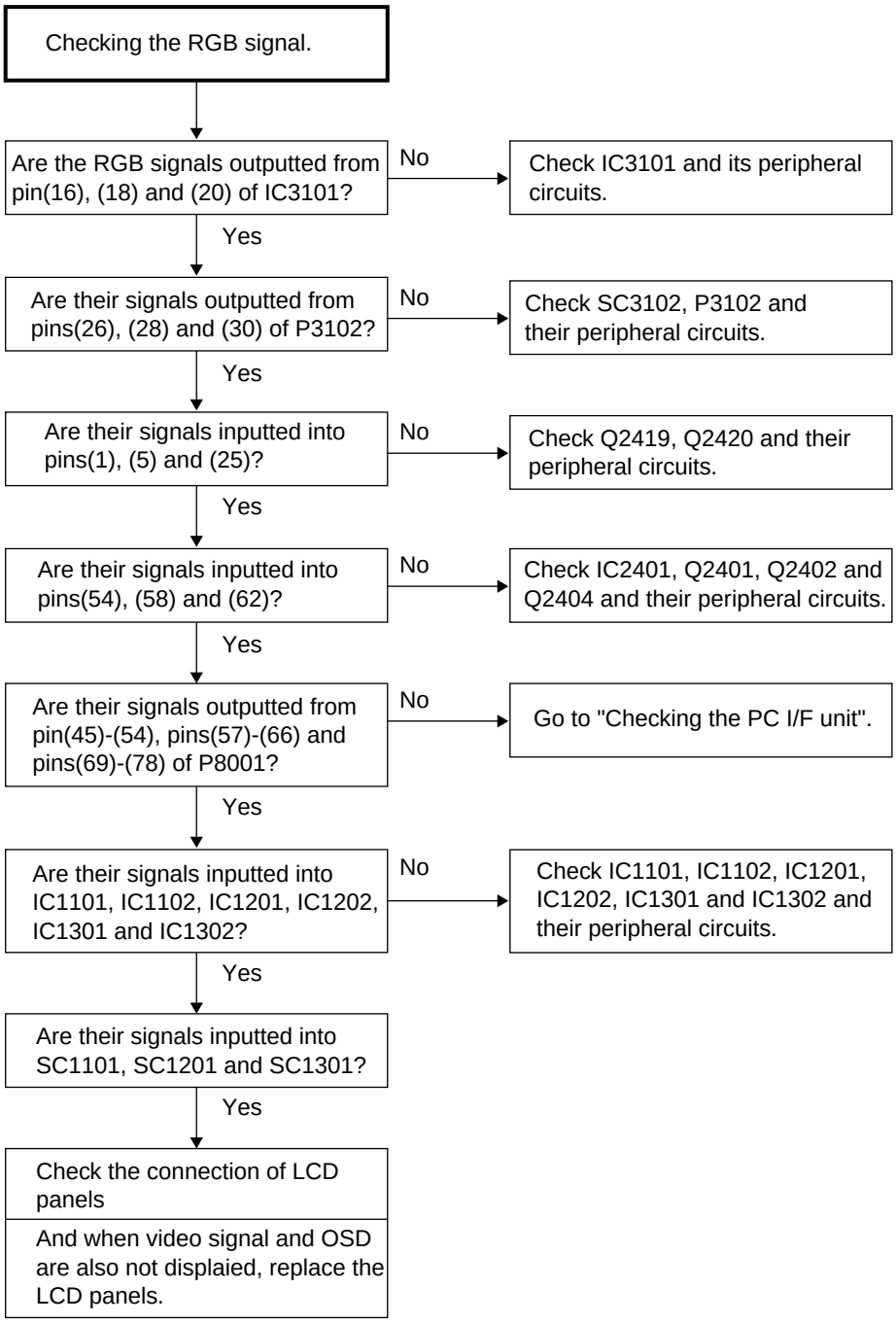
TROUBLE SHOOTING TABLE (Continued)


Checking the video system
Is the lamp on ?
No
Go to "Lamp fails to light-up".
Yes
Is specified voltage EA connectors?
No
Check power circuit and its parts.
Yes
Is the video signal inputted into the pin (23) of P3102?
No
Check the video terminal and its peripheral circuits.
Yes
Is the signal outputted from the pin (7) of IC4502?
No
Check IC4502 and its peripheral circuits.
Yes
Is the signal outputted from the pin (5) of IC4505?
No
Check IC4505 and its peripheral circuits.
Yes
Is the signal inputted into pin (72) of P8002?
No
Check Q4501 and its peripheral circuits.
Yes
Go to "Checking the PC I/F unit".

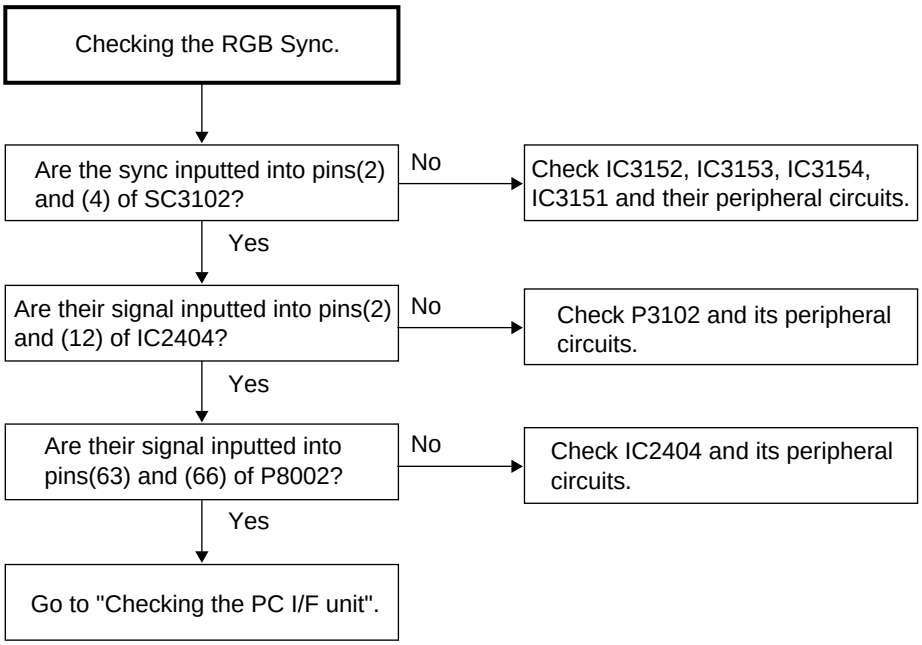
TROUBLE SHOOTING TABLE (Continued)


Checking the S-video system
Is the lamp on ?
No
Go to "Lamp fails to light-up".
Yes
Is specified voltage EA connectors?
No
Check power circuit and its parts.
Yes
Is the video signal inputted into the pins (19) and (21) of P3102?
No
Check the video terminal and its peripheral circuits.
Yes
Is the Y-signal outputted from the pin (7) of IC4502?
No
Check IC4502 and its peripheral circuits.
Yes
Is the C-signal outputted from the emitter of Q4513?
No
Check Q4513 and its peripheral circuits.
Yes
Is the signal inputted into pins(72) and (73) of P8002?
No
Check Q4502 and its peripheral circuits.
Yes
Go to "Checking the PC I/F unit".

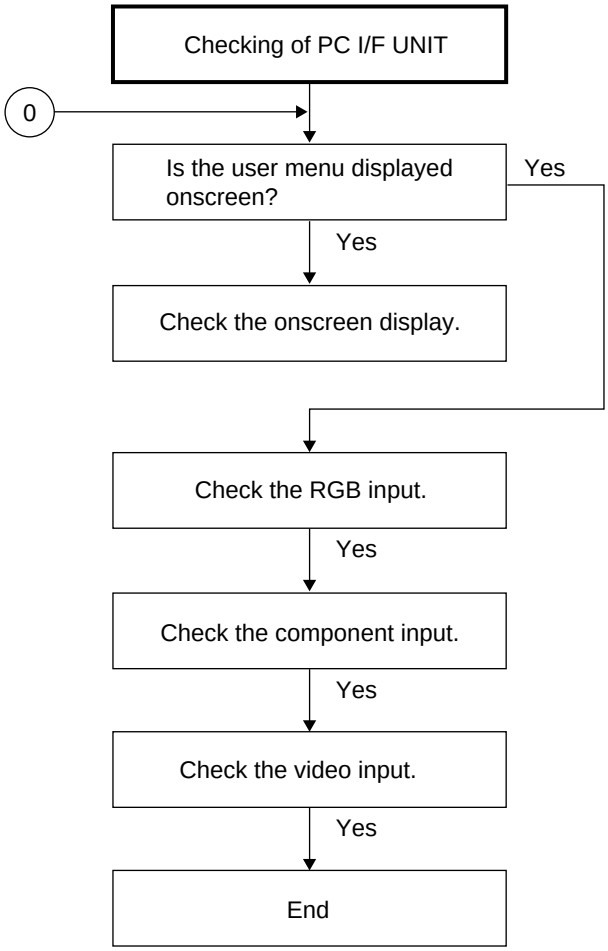
TROUBLE SHOOTING TABLE (Continued)


Checking the RGB signal.
Are the RGB signals outputted from pin(16), (18) and (20) of IC3101?
No
Check IC3101 and its peripheral circuits.
Yes
Are their signals outputted from pins(26), (28) and (30) of P3102?
No
Check SC3102, P3102 and their peripheral circuits.
Yes
Are their signals inputted into pins(1), (5) and (25)?
No
Check Q2419, Q2420 and their peripheral circuits.
Yes
Are their signals inputted into pins(54), (58) and (62)?
No
Check IC2401, Q2401, Q2402 and Q2404 and their peripheral circuits.
Yes
Are their signals outputted from pin(45)-(54), pins(57)-(66) and pins(69)-(78) of P8001?
No
Go to "Checking the PC I/F unit".
Yes
Are their signals inputted into IC1101, IC1102, IC1201, IC1202, IC1301 and IC1302?
No
Check IC1101, IC1102, IC1201, IC1202, IC1301 and IC1302 and their peripheral circuits.
Yes
Are their signals inputted into SC1101, SC1201 and SC1301?
Yes
Check the connection of LCD panels
And when video signal and OSD are also not displaied, replace the LCD panels.

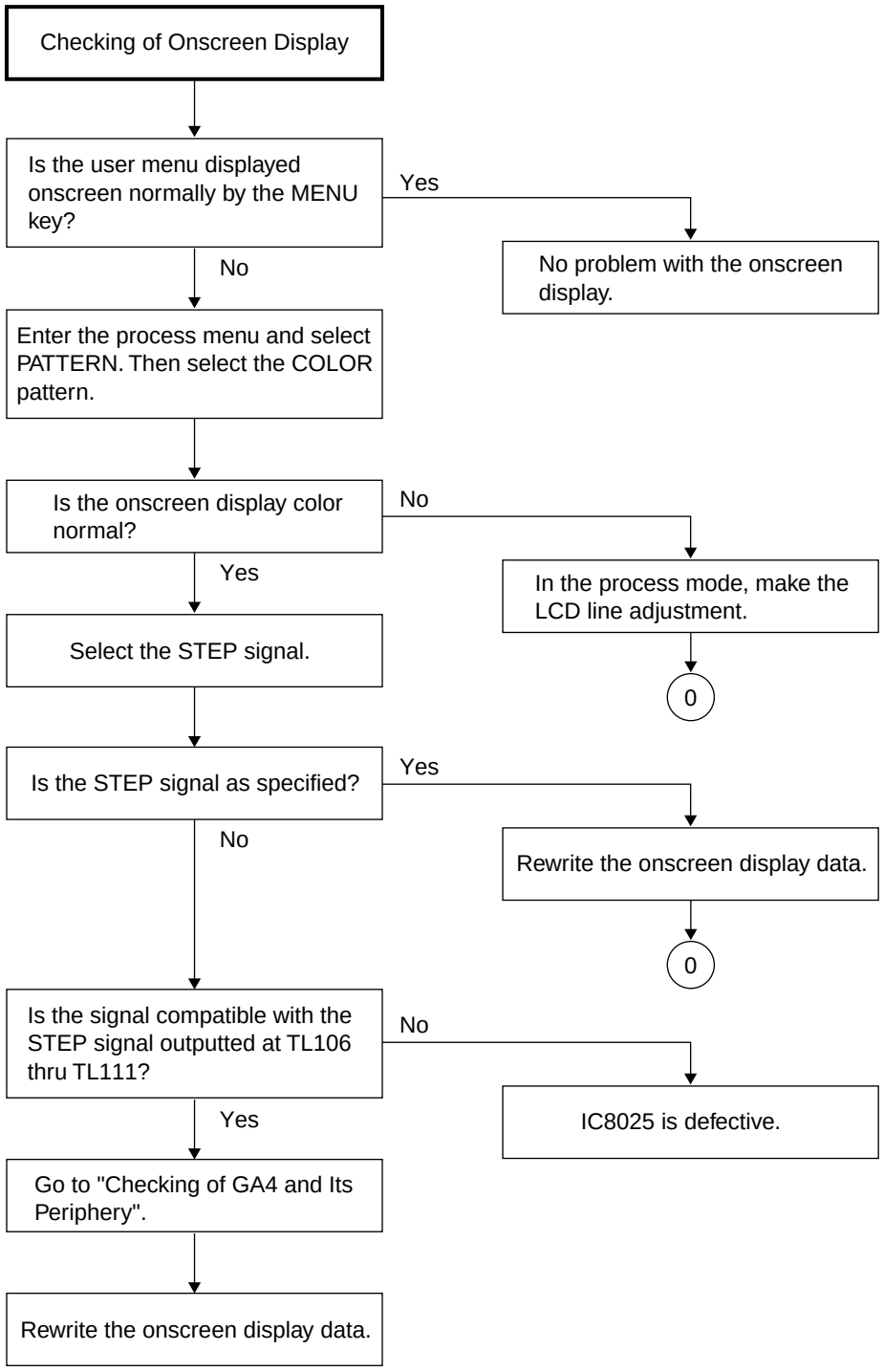
TROUBLE SHOOTING TABLE (Continued)


Checking the RGB Sync.
Are the sync inputted into pins(2) and (4) of SC3102?
No
Check IC3152, IC3153, IC3154, IC3151 and their peripheral circuits.
Yes
Are their signal inputted into pins(2) and (12) of IC2404?
No
Check P3102 and its peripheral circuits.
Yes
Are their signal inputted into pins(63) and (66) of P8002?
No
Check IC2404 and its peripheral circuits.
Yes
Go to "Checking the PC I/F unit".

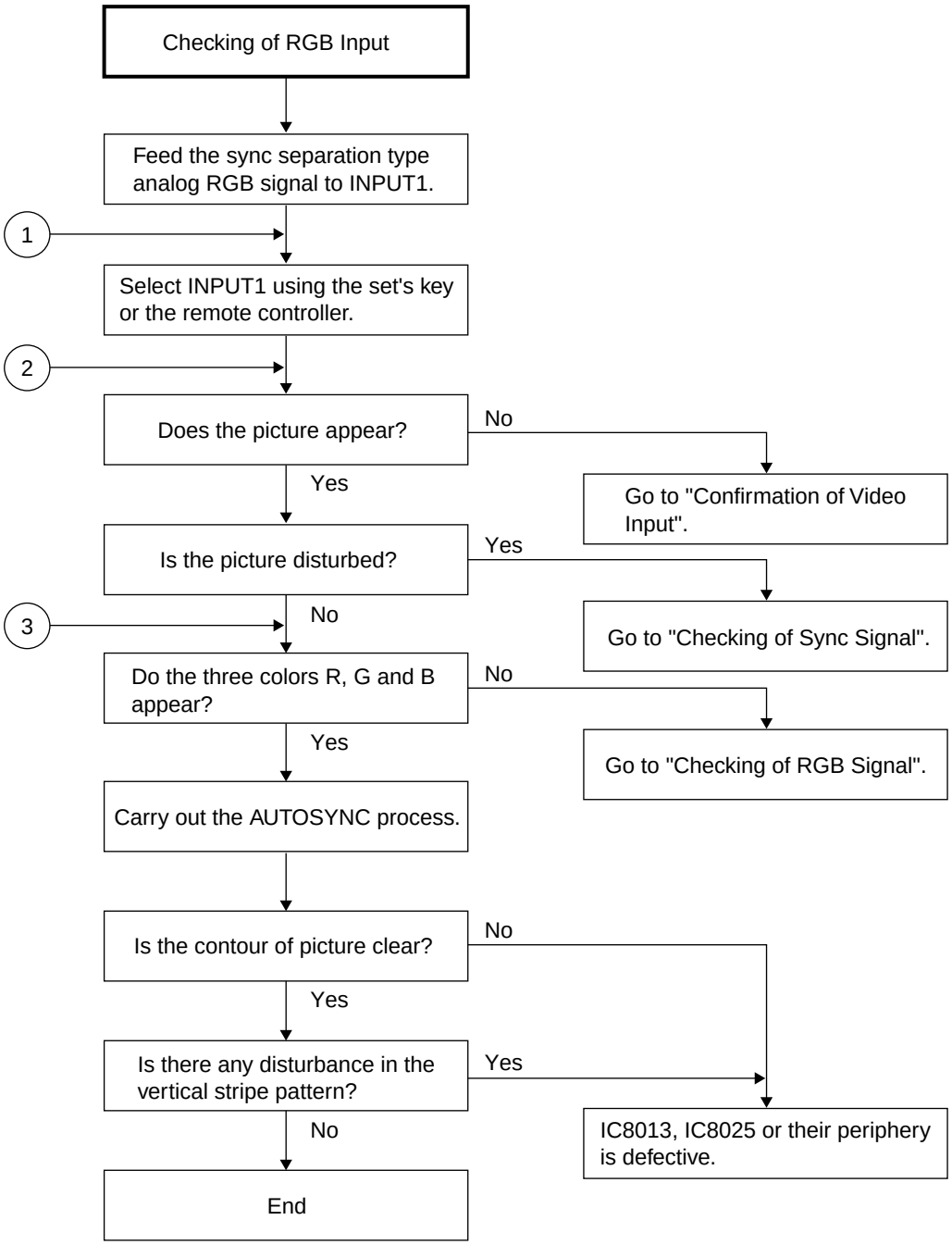
TROUBLE SHOOTING TABLE for PC I/F UNIT



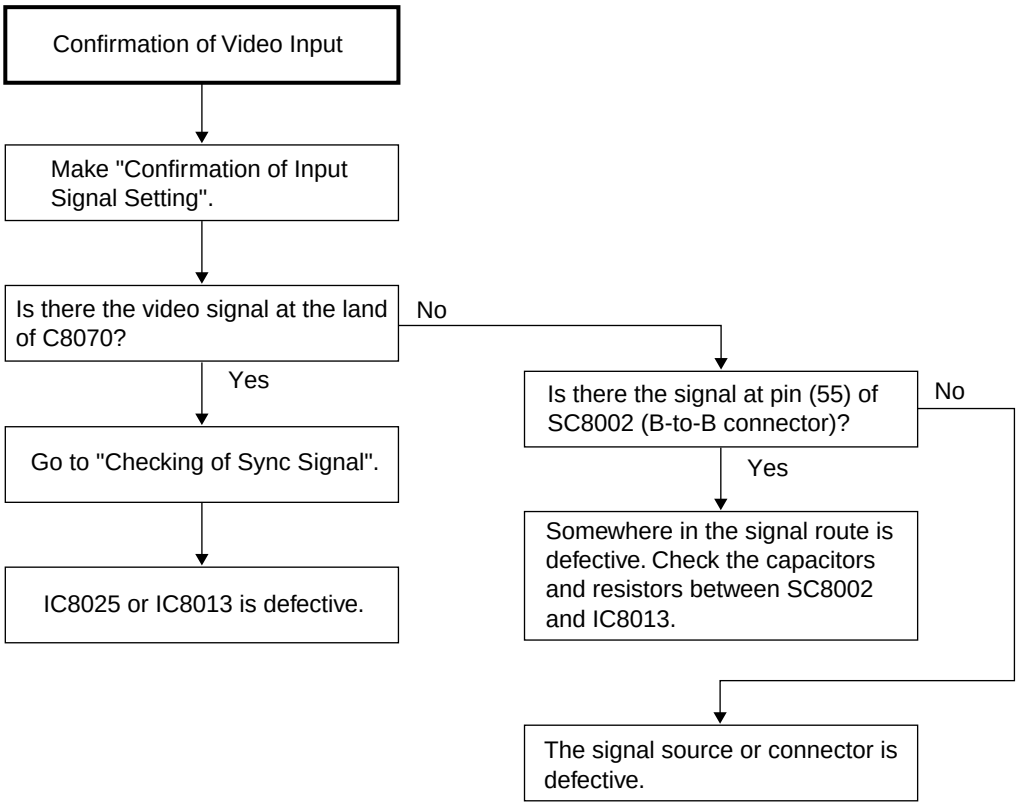
TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)

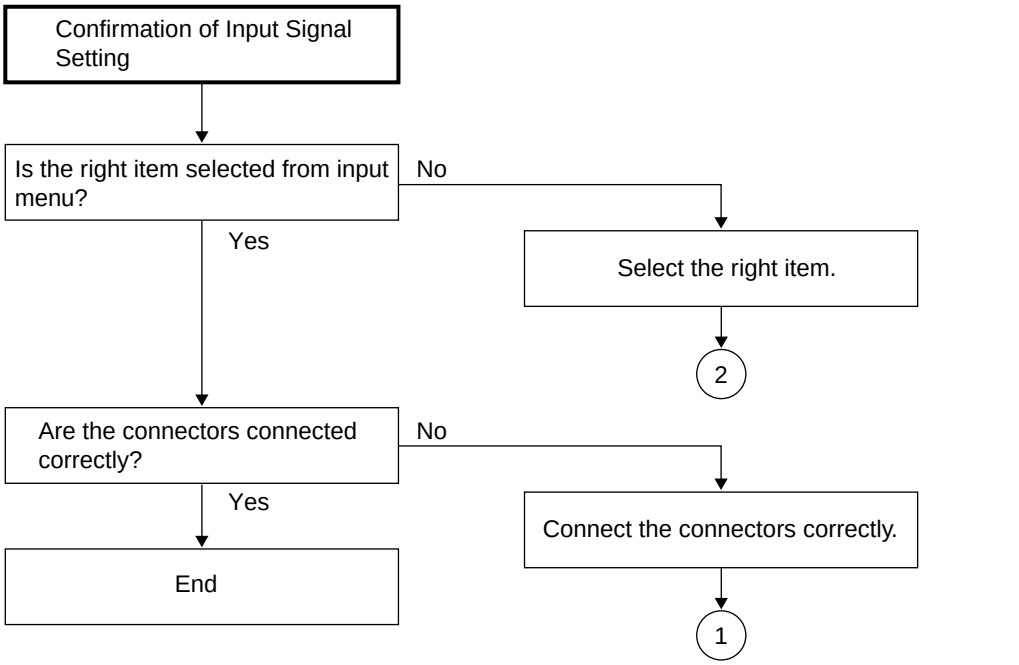

Checking of Onscreen Display
Is the user menu displayed onscreen normally by the MENU key?
Yes
No problem with the onscreen display.
No
Enter the process menu and select PATTERN. Then select the COLOR pattern.
Is the onscreen display color normal?
No
In the process mode, make the LCD line adjustment.
Yes
Select the STEP signal.
0
Is the STEP signal as specified?
Yes
Rewrite the onscreen display data.
No
0
Is the signal compatible with the STEP signal outputted at TL106 thru TL111?
No
IC8025 is defective.
Yes
Go to "Checking of GA4 and Its Periphery".
Rewrite the onscreen display data.

TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)

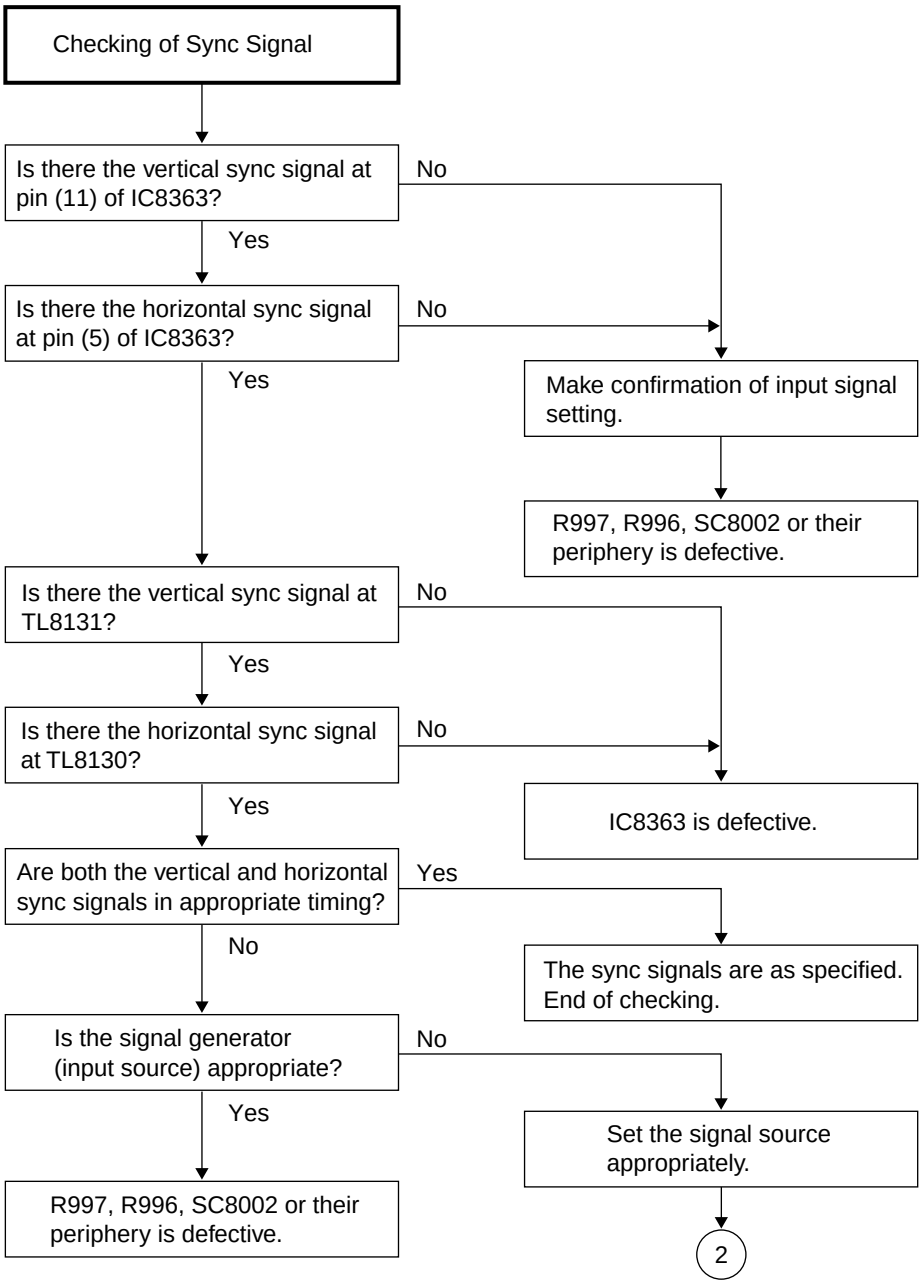


TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)

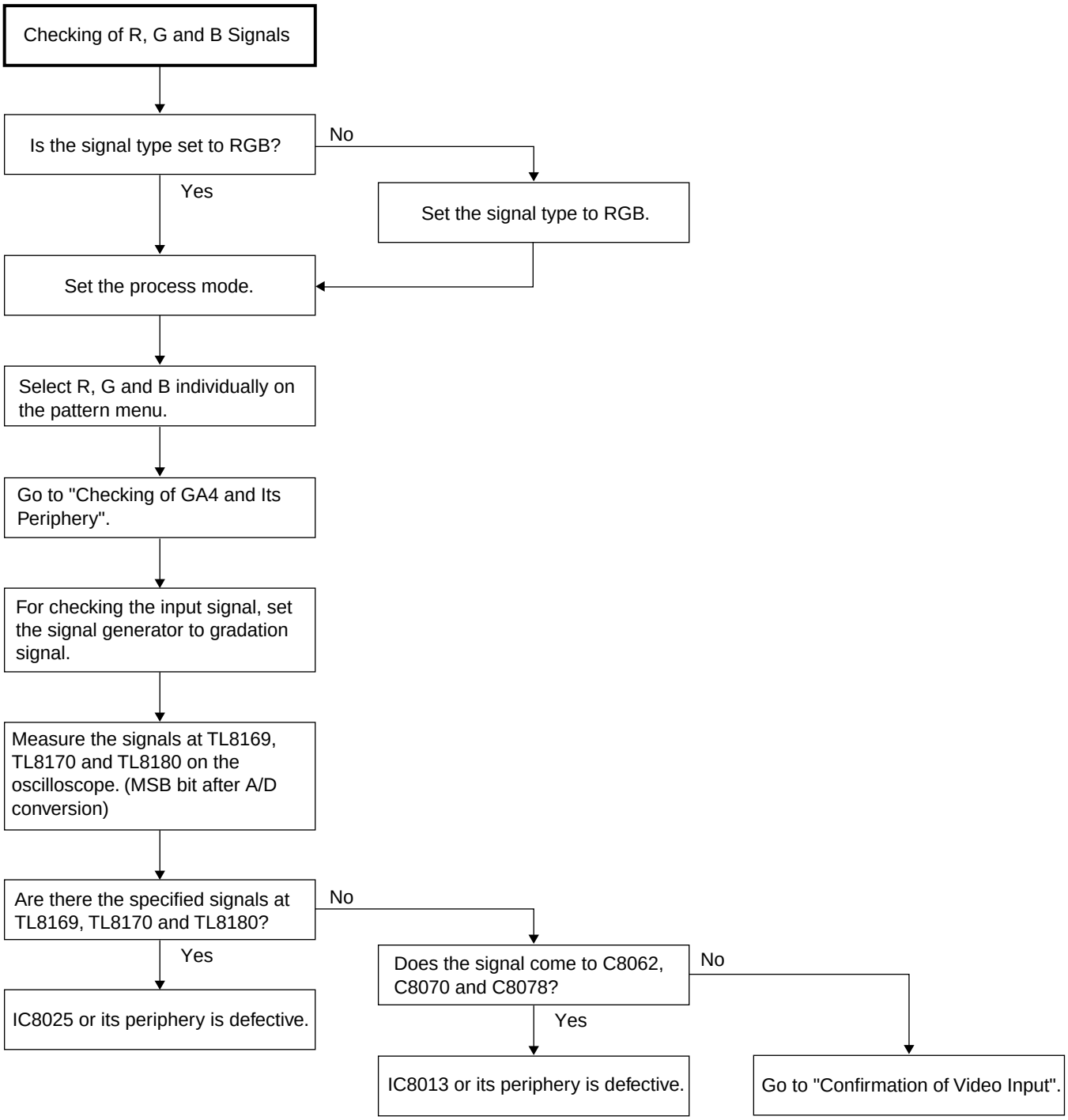

Confirmation of Video Input
Make "Confirmation of Input Signal Setting".
Is there the video signal at the land of C8070?
No
Yes
Is there the signal at pin (55) of SC8002 (B-to-B connector)?
No
Yes
Go to "Checking of Sync Signal".
Somewhere in the signal route is defective. Check the capacitors and resistors between SC8002 and IC8013.
IC8025 or IC8013 is defective.
The signal source or connector is defective.



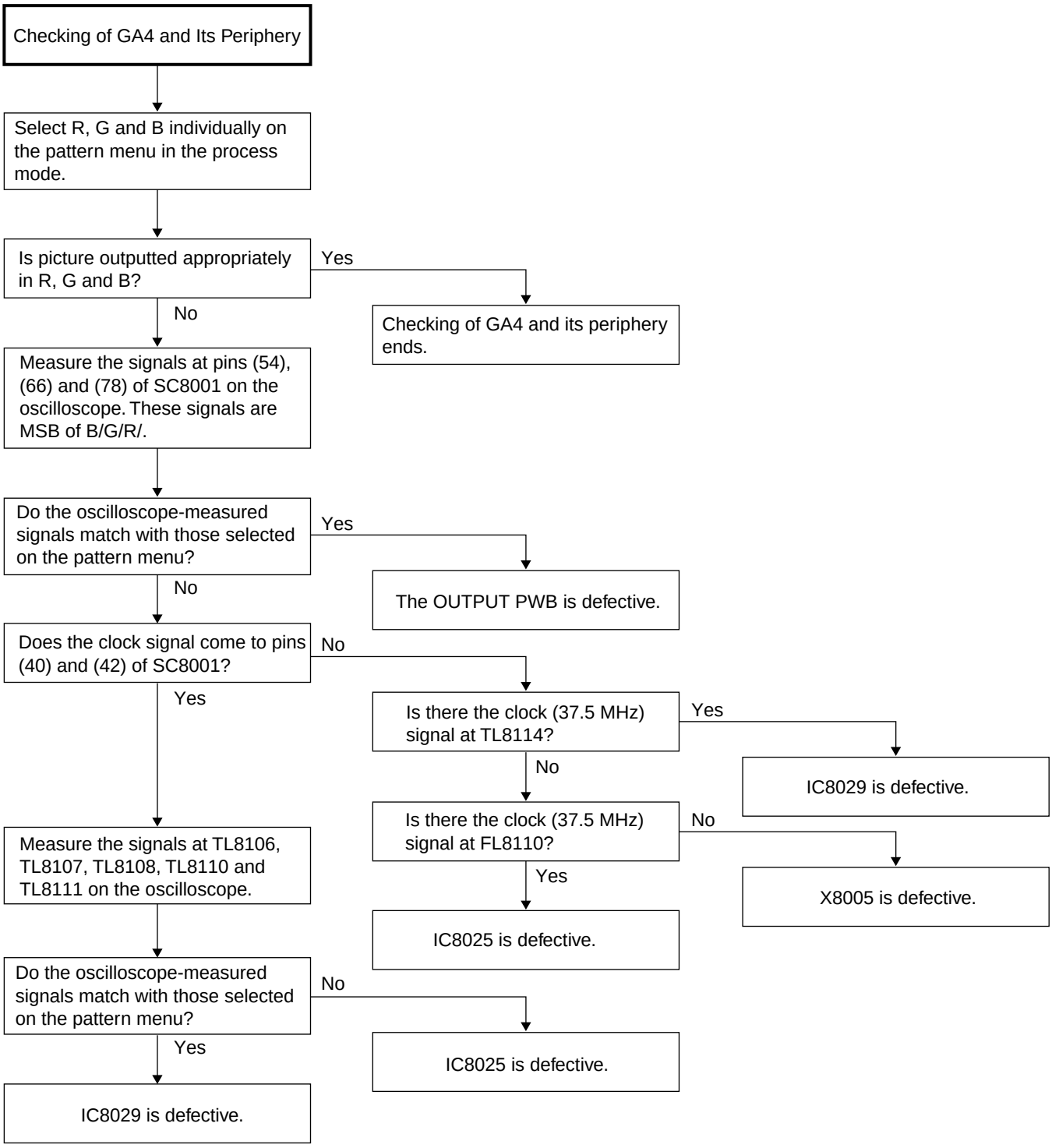
TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)


Checking of Sync Signal
Is there the vertical sync signal at pin (11) of IC8363?
No
Yes
Is there the horizontal sync signal at pin (5) of IC8363?
No
Yes
Make confirmation of input signal setting.
R997, R996, SC8002 or their periphery is defective.
Is there the vertical sync signal at TL8131?
No
Yes
Is there the horizontal sync signal at TL8130?
No
Yes
IC8363 is defective.
Are both the vertical and horizontal sync signals in appropriate timing?
Yes
No
The sync signals are as specified. End of checking.
Is the signal generator (input source) appropriate?
No
Yes
Set the signal source appropriately.
R997, R996, SC8002 or their periphery is defective.
2

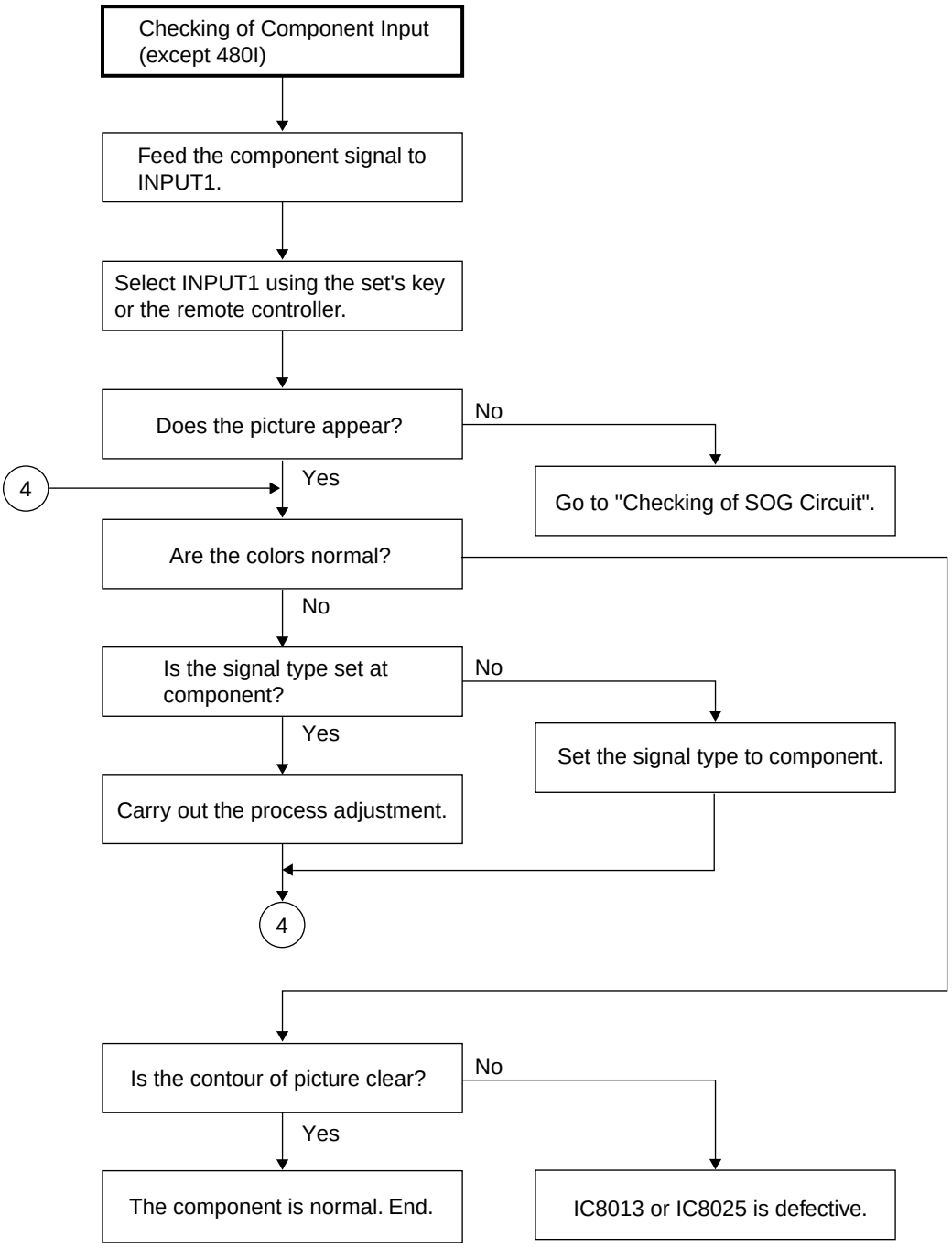
TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)


Checking of R, G and B Signals
Is the signal type set to RGB?
No
Yes
Set the signal type to RGB.
Set the process mode.
Select R, G and B individually on the pattern menu.
Go to "Checking of GA4 and Its Periphery".
For checking the input signal, set the signal generator to gradation signal.
Measure the signals at TL8169, TL8170 and TL8180 on the oscilloscope. (MSB bit after A/D conversion)
Are there the specified signals at TL8169, TL8170 and TL8180?
No
Yes
IC8025 or its periphery is defective.
Does the signal come to C8062, C8070 and C8078?
No
Yes
IC8013 or its periphery is defective.
Go to "Confirmation of Video Input".

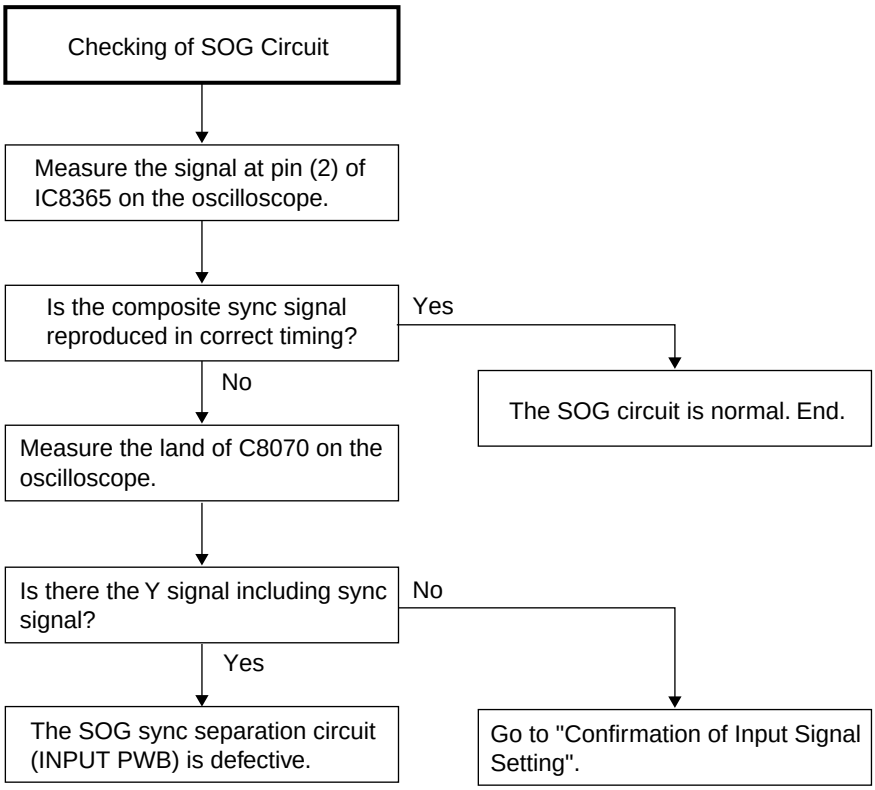
TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)


Checking of GA4 and Its Periphery
Select R, G and B individually on the pattern menu in the process mode.
Is picture outputted appropriately in R, G and B?
Yes
Checking of GA4 and its periphery ends.
No
Measure the signals at pins (54), (66) and (78) of SC8001 on the oscilloscope. These signals are MSB of B/G/R/.
Do the oscilloscope-measured signals match with those selected on the pattern menu?
Yes
The OUTPUT PWB is defective.
No
Does the clock signal come to pins (40) and (42) of SC8001?
No
Is there the clock (37.5 MHz) signal at TL8114?
Yes
IC8029 is defective.
No
Is there the clock (37.5 MHz) signal at FL8110?
No
X8005 is defective.
Yes
IC8025 is defective.
Yes
Measure the signals at TL8106, TL8107, TL8108, TL8110 and TL8111 on the oscilloscope.
Do the oscilloscope-measured signals match with those selected on the pattern menu?
No
IC8025 is defective.
Yes
IC8029 is defective.

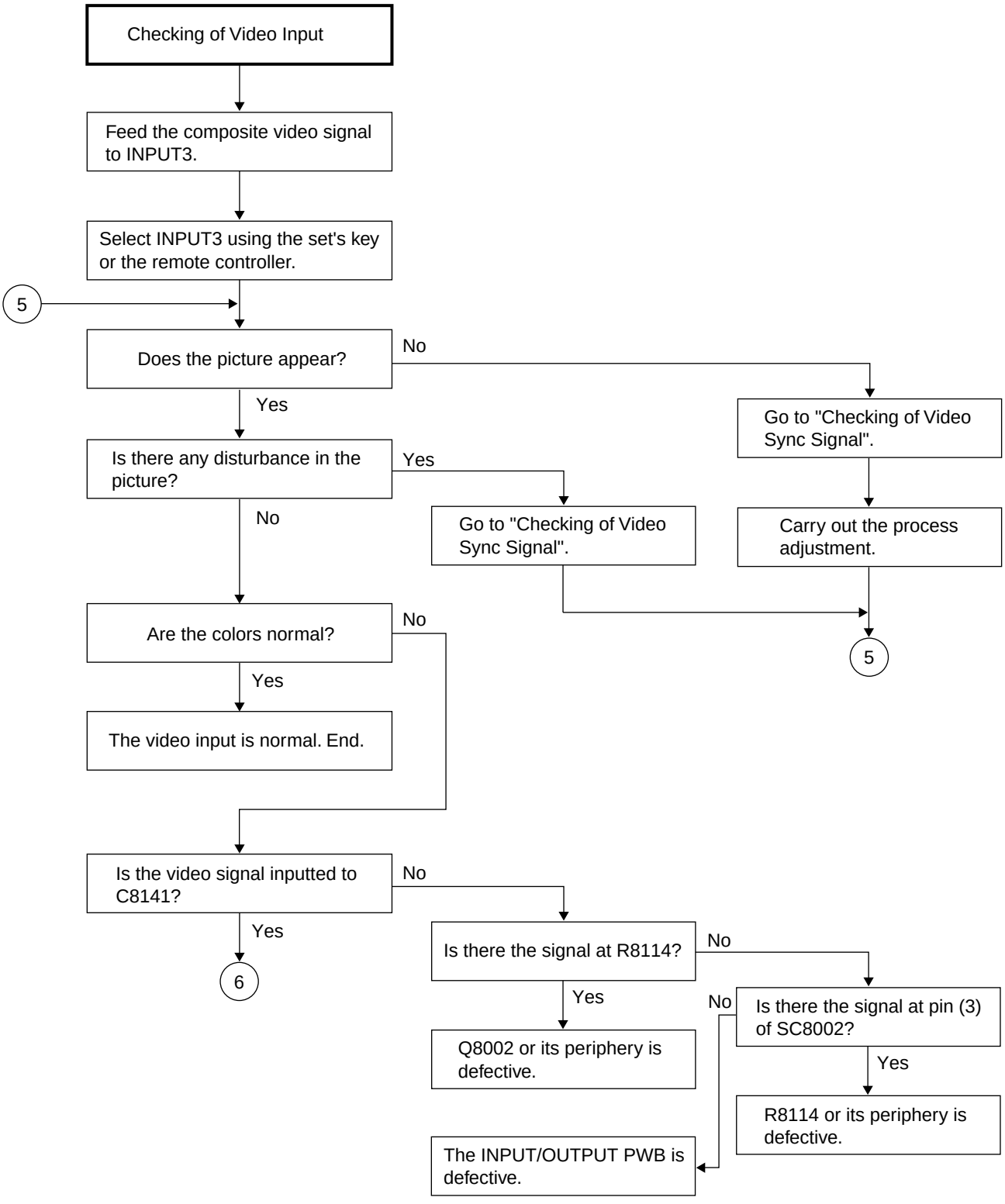
TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)



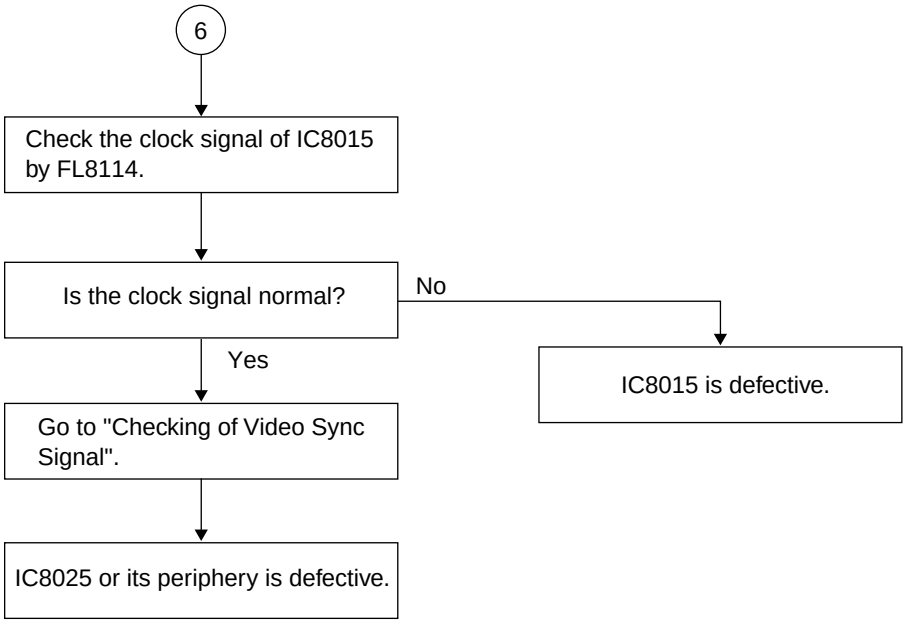
TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)

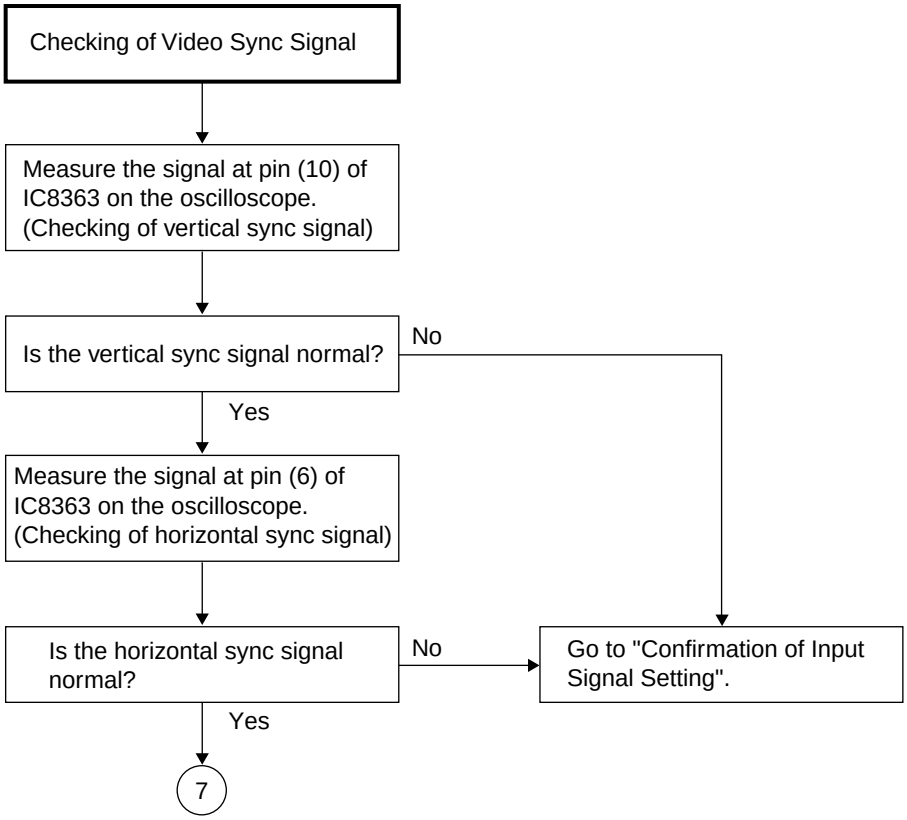

Checking of SOG Circuit
Measure the signal at pin (2) of IC8365 on the oscilloscope.
Is the composite sync signal reproduced in correct timing?
Yes
The SOG circuit is normal. End.
No
Measure the land of C8070 on the oscilloscope.
Is there the Y signal including sync signal?
No
Yes
The SOG sync separation circuit (INPUT PWB) is defective.
Go to "Confirmation of Input Signal Setting".

TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)

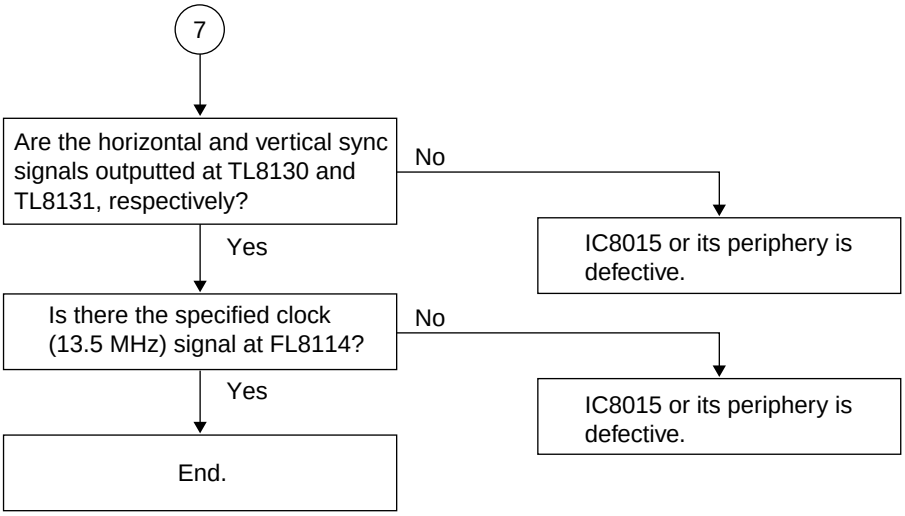


TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)


6
Check the clock signal of IC8015 by FL8114.
Is the clock signal normal?
No
IC8015 is defective.
Yes
Go to "Checking of Video Sync Signal".
IC8025 or its periphery is defective.


Checking of Video Sync Signal
Measure the signal at pin (10) of IC8363 on the oscilloscope. (Checking of vertical sync signal)
Is the vertical sync signal normal?
No
Yes
Measure the signal at pin (6) of IC8363 on the oscilloscope. (Checking of horizontal sync signal)
Is the horizontal sync signal normal?
No
Go to "Confirmation of Input Signal Setting".
Yes
7

TROUBLE SHOOTING TABLE for PC I/F UNIT (Continued)


7
Are the horizontal and vertical sync signals outputted at TL8130 and TL8131, respectively?
No
IC8015 or its periphery is defective.
Yes
Is there the specified clock (13.5 MHz) signal at FL8114?
No
IC8015 or its periphery is defective.
Yes
End.

Technische Daten

Produkttyp	LCD PROJEKTOR
Modell	PG-C45X
Videosystem	NTSC 3.58/NTSC 4.43/PAL/PAL-M/PAL-N/PAL 60/SECAM/ DTV480I/DTV480P/DTV540P/DTV580I/DTV580P/DTV720P/DTV1035I/DTV1080I
Wiedergabeverfahren	LCD-Panel x 3, optische RGB-Verschlussmethode
LCD-Panel	Panel-Größe: 0,99tum(25,1 mm)(15[H] × 20[B] mm) Anzahl der Bildpunkte: 786.432 Bildpunkte (1.024 [H] × 768 [V])
Standard-Objektiv	1–1,27 × Zoom-Objektiv, F1,7–2,2, f = 36,5–46,3 mm
Projektionslampe	Wechselstromlampe 250 W
Komponenten-Eingangssignale	15-poliger Mini-D-Sub-Anschluss
(INPUT 1/2)	Y: 1,0 Vs-s, negatives Sync., 75 Ω terminiert P_B: 0,7 Vs-s, 75 Ω terminiert P_R: 0,7 Vs-s, 75 Ω terminiert
Horizontale Auflösung	750 Fernsehzeilen (DTV720P)
Computer-RGB-Eingangssignal	15-poliger Mini-D-Sub-Anschluss
(INPUT 1/2)	RGB getrennt/Sync auf Grün-Typ analoger Eingang: 0-0,7 Vs-s, positiv, 75 Ω terminiert HORIZONTALES SYNC.-SIGNAL: TTL-Pegel (positiv/negativ) VERTIKALES SYNC.-SIGNAL: Wie oben
Videoeingangssignal	RCA-Anschluss: VIDEO, gemischtes Video, 1,0 Vs-s, negatives Sync., 75 Ω terminiert
(INPUT 3)	
S-Videoeingangssignal	4-pol. Mini DIN-Anschluss
(INPUT 4)	Y (Luminanzsignal): 1,0 Vs-s, negatives Sync., 75 Ω terminiert C (Chrominanzsignal): Stoß 0,286 Vs-s, 75 Ω terminiert
Computer-Steuerungssignal (RS-232C)	9-Pin Mini-DIN-Stecker
Pixeltakt	12-230 MHz
Vertikale Frequenz	43-200 Hz*
Horizontale Frequenz	15-126 kHz
Audioeingangssignal	ø 3,5 mm Minibuchse: AUDIO, 0,5 Vrms, mehr als 47 kΩ (Stereo)
Audioausgang	3,0 W (Mono)
Lautsprechersystem	4 cm × 7 cm
Nennspannung	100-240 V Wechselstromspannung
Eingangsspannung	3,4 A
Nennfrequenz	50/60 Hz
Leistungsaufnahme (normal)	340 W (Standard-Modus)/290 W (Modus mit niedrigem Stromverbrauch)
Leistungsaufnahme (Bereitschaft)	Ca. 0,8 W (wenn “Monitor/RS232” auf “OFF” gestellt ist)
Wärmeableitung	1.280kWh
Betriebstemperatur	41°F bis 104°F (+5°C bis +40°C)
Lagertemperatur	– 4°F bis 140°F (–20°C bis +60°C)
Gehäuse	Plastik
I/R-Trägerfrequenz	38 kHz
Abmessungen (ca.)	15 3/8" × 3 7/8" × 11 9/16" (390 (B) × 99,0 (H)× 294 (T) mm) (nur Hauptgerät) 15 1/2" × 4 7/16" × 11 5/8" (393 (B) × 114,0 (H) × 303,2 (T) mm) (einschließlich Drehfüße und Projektionsteile)
Gewicht (ca.)	11,3 lbs. (5,1 kg)
Mitgeliefertes Zubehör	Fernbedienung, zwei R6-Batterien, Netzkabel für USA, Kanada usw. (11'10", 3,6 m), Netzkabel für Europa, ausgenommen Großbritannien (6', 1,8 m), Netzkabel für Großbritannien, Hongkong und Singapur (6', 1,8 m), Netzkabel für Australien, Neuseeland und Ozeanien (6', 1,8 m), RGB-Kabel (9' 10", 3m), USB-Kabel (9' 10", 3m), Audio-Computerkabel (9' 10", 3m), DIN-D-Sub RS-232C-Adapter (6 49/64", 15 cm), zusätzlicher Luftfilter, Objektivkappe (befestigt), Projektorhandbuch-und technische Referenz-CD-ROM, Sharp Advanced Presentation Software CD-ROM, Bedienungsanleitung,Kurzanleitungskennung
Ersatzteile	Lampeneinheit (Lampen-/Gehäusemodul) (BQC-XGC50X//1), Fernbedienung (RRMCGA029WJSA), zwei R 6-Batterien (“AA”, UM/SUM-3, HP-7 oder ähnlich), Netzkabel für USA, Kanada usw. (QACCDA010WJPZ), Netzkabel für Europa, ausgenommen Großbritannien (QACCV4002CEZZ), Netzkabel für Großbritannien, Hongkong und Singapur (QACCBA012WJPZ), Netzkabel für Australien, Neuseeland und Ozeanien (QACCL3022CEZZ),RGB-Kable (QCNWGA012WJPZ), USB-Kable (QCNWGA014WJPZ), Audio-Computerkabel (QCNWGA013WJPZ), DIN-D-Sub RS-232C-Adapter (QCNWGA015WJPZ), Luftfilter (PFILDA005WJZZ), Objektivkappe (PCAPHA003WJSA), Projektorhandbuch-und- technische Referenz-CD-ROM (UDSKAA016WJZZ), Sharp Advanced Presentation Software CD-ROM (UDSKAA017WJZZ), Bedienungsanleitung (TINS-A428WJZZ), Kurzanleitungskennung

*Bei vertikalen Frequenzen über 100 Hz kann eine zeitweise Störung sichtbar werden, wenn die OSD-Funktionen eingeschaltet sind.

Dieser SHARP Projektor verwendet eine LCD (Liquid Crystal Display)-Anzeige.Diese hochmoderne Anzeige enthält 786.432 Pixel (xRGB) TFTs (Thin Film Transistors). Bei allen technologisch fortschrittlichen, elektronischen Geräten, z. B. Großbild-Fernsehern, Videosystemen bzw. Videokameras, sind bestimmte Toleranzgrenzen für die Funktionen gegeben.
Dieses Gerät hat einige inaktive, innerhalb akzeptierter Toleranzgrenzen liegende Bildpunkte, die als leuchtende oder als nicht aktive Punkte auf der Bildwand wiedergegeben werden. Dies hat keinen Einfluss auf die Bildqualität oder die Lebensdauer des Gerätes.

Änderungen der technischen Daten ohne vorherige Ankündigung vorbehalten.

HINWEIS FÜR DAS WARTUNGSPERSONAL

ACHTUNG: UV-STRAHLUNG

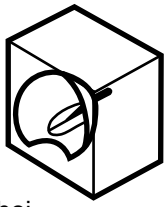
Die Lichtquelle im Projektor, eine Metall-Halogen-Lampe, gibt eine geringe UV-Strahlung ab.

DIREKTE BESTRAHLUNG AUF AUGEN UND HAUT MUSS VERMIEDEN WERDEN.

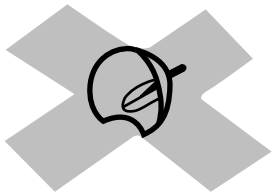
Zur Gewährleistung der Sicherheit muß folgendes beachtet werden:

1. Bei Arbeiten am Projektor bei eingeschalteter Lampe und abgenommenem oberen Gehäuse muß unbedingt eine Sonnenbrille getragen werden.

2. Die Lampe darf nicht außerhalb des Lampengehäuses eingeschaltet werden.



3. Betrieb für länger als 2 Stunden bei abgenommenem Gehäuse ist nicht zulässig.



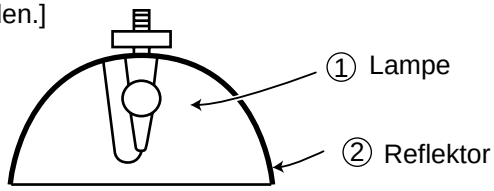
Zur Beachtung bei UV-Strahlung und Mitteldruck-Lampen

1. Vor dem Auswechseln der Lampe muß der Netzstecker gezogen werden.
2. Vor Durchführung von Wartungsarbeiten muß das Gerät eine Stunde abkühlen.
3. Nur mit dem gleichen Lampentyp ersetzen Typ BQC-XGC50X//1; Nennleistung 85 V/250 W.
4. Die Lampe gibt eine geringe UV-Strahlung ab, daher muß direkter Augenkontakt vermieden werden.
5. Die Mitteldruck-Lampe weist ein Explosionsrisiko auf. Daher müssen die nachstehenden Installationsanweisungen beachtet werden, und die Lampe muß vorsichtig behandelt werden.

■ Auswechseln der Lampe

Hinweis:

Da die Lampe während des Betriebs sehr heiß wird, sollte die Lampe erst ausgewechselt werden, nachdem das Gerät mindestens eine Stunde ausgeschaltet war, damit die Lampe ausreichend abkühlen kann.
Beim Installieren der neuen Lampe muß darauf geachtet werden, die Lampe selbst (Glaskolben) nicht zu berühren. Vielmehr muß die Lampe am Reflektor ② gehalten werden.
[Es darf nur ein Original-Ersatzteil verwendet werden.]



GEFAHR! — Niemals die Spannungsversorgung einschalten, ohne daß eine Lampe vorhanden ist, um elektrische Schläge und Schäden am Gerät zu vermeiden, da der Stabilisator anfangs hohe Spannungen erzeugt.

Da eine geringe UV-Strahlung aus einer Öffnung zwischen der Schachtabdeckung und dem Lampengehäuse austritt, sollte der Objektivdeckel bei Wartungsarbeiten auf die Öffnung gesetzt werden, um die Bestrahlung von Augen und Haut zu vermeiden.

Vorsichtsmaßregeln für bleifreien Lötzinn

1 Verwendung von bleifreiem Lötzinn

Die "Eingangs-, Ausgangs-, Fernbedienungs-, Schlüsell-, Fächer-Platine" dieses Modells verwendet bleifreien Lötzinn. Das LF-Symbol zeigt bleifreien Lötzinn an und ist an den Platinen und Wartungsanleitungen angebracht. Der Buchstabe nach LF zeigt den Typ des bleifreien Lötzinns an.

Beispiel:

Zeigt bleifreien Lötzinn aus Zinn, Silber und Kupfer an.

2 Bei Reparatur der mit bleifreiem Lötzinn gelöteten Platine immer bleifreien Lötzinn verwenden. Reparatur mit herkömmlichem Lötzinn kann zu Schäden oder Unfällen aufgrund von Rissen führen.

Da der Schmelzpunkt bleifreien Lvtzinns (Sn-Ag-Cu) um 40°C höher als der von Bleidraht-Lötzinn ist, empfehlen wir die Verwendung einer speziellen Lötspitze. Wenn Fragen über den Beschaffung leitfreien Lötzinns oder spezieller Lötspitzen bestehen, wenden Sie sich an unsere Kundendienstvertretung in Ihrem Gebiet.

3 Löten

Da der Schmelzpunkt bleifreien Lötzinns (Sn-Ag-Cu) etwa 220°C beträgt, was um 40°C höher als der von bleihaltigem Lötzinn ist, und außerdem schlechte Löt-Benetzbarkeit aufweist, kann es erforderlich werden, die Lötspitze längere Zeit in Kontakt mit der Platine zu halten. Da die Lötlauge abfliessen kann oder der maximale Hitzewiderstand von Teilen überschritten werden kann, die Lötspitze sofort von der Platine nehmen, sobald eine gute Lötung erzielt ist. Bleifreier Lötzinn enth_lt mehr Zinn, und das Ende der Lötspitze kann leicht angegriffen werden. Immer sicherstellen, dass der Lötkolben nur bei Bedarf eingeschaltet wird.

Wenn ein anderer Typ von Lötzinn an der Lötspitze haften bleibt, verschmilzt er mit dem bleifreien Lötzinn. Die Lötspitze nach jeder Verwendung reinigen.

Wenn die Lötspitze bei der Verwendung geschwärzt wird, die Spitze mit Stahlwolle oder feinem Sandpapier abschmirgeln.

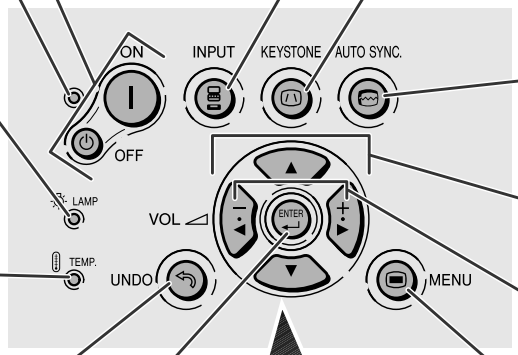
Immer beim Austausch von Teilen vorsichtig sein, und die Polaritätsanzeige auf der Platinenbeschriftung beachten.

Bleifreier Lötzinn zur Wartung

Teile-Nr.	★	Beschreibung		Code
ZHNDAi123250E	J	ϕ0.3mm	250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm	500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm	1 Rolle	BM

Bedienungsanleitung

Projektor (Vorder- und Draufsicht)



Netz-Tasten(ON/OFF)
Schaltet die Stromversorgung ein oder aus.

Netz-Anzeige
Leuchtet rot, wenn sich der Projektor im Bereitschaftsbetrieb befindet. Wenn die Stromversorgung eingeschaltet ist, leuchtet diese Anzeige grün.

LAMP-Anzeige (Lampenaustausch)
Bei vorschriftsmäßiger Funktion leuchtet diese Anzeige grün. Die Lampe austauschen, wenn die Anzeige rot leuchtet

TEMP.-Anzeige (Temperaturwarn)
Wenn die interne Temperatur ansteigt, leuchtet diese Anzeige rot

UNDO-Taste
Für das Rückgängigmachen eines Bedienschrittes oder für die Rückkehr zu den Grundeinstellungen.

ENTER-Taste
Für die Einstellung der gewählten oder eingestellten Menüpunkte.

INPUT-Taste
Für das Umschalten zwischen Eingangsmodus 1, 2, 3 und 4.

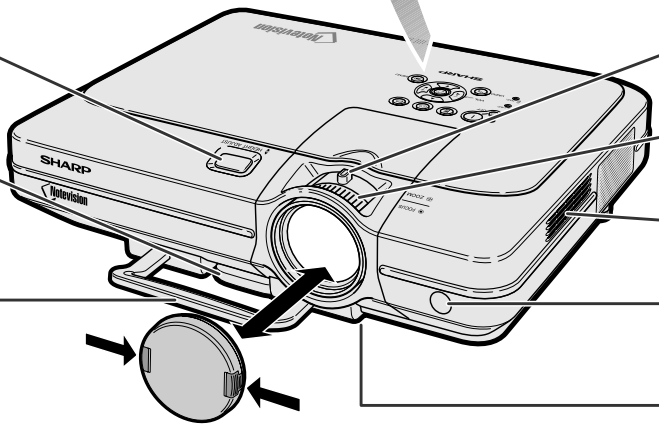
KEYSTONE-Taste
Für das Einstellen der Trapezverzerrungs- oder Digitalen Verschiebungs-Einstellung.

AUTO SYNC-Taste
Für das automatische Einstellen von Bildern, wenn ein Computer angeschlossen ist.

Einstelltasten (▲, ▼, ◀, ▶)
Für die Wahl der Menüpunkte.

VOL-Tasten
Für das Einstellen des Lautsprecher-Tonpegels.

MENU-Taste
Für die Anzeige des Justierungs- und Einstellungsbildschirms.



HEIGHT ADJUST-Taste

Einstellfuß

Tragegriff

Zoom-Knopf

Fokusring

Luftzufuhr

Fernbedienungssensor

Luftfilter/Ventilator (Luftzufuhr) (auf der Unterseite des Projektors)

Anbringen und Abnehmen der Objektivkappe

- Drücken Sie an den beiden asten der Objektivkappe, und bringen Sie diese an dem Objektiv an. Danach geben Sie die asten frei, um die Objektivkappe zu verriegeln.
- Drücken Sie die beiden asten der Objektivkappe, und nehmen Sie die Objektivkappe von dem Objektiv ab.

Projektor (Hintersicht)

USB-Anschluss
Für den Anschluss eines Computers unter Verwendung eines USB-Kabels.

RS-232C-Anschluss
Für die Bedienung des Projektors über Computers.

AUDIO OUTPUT-Anschluss
Geteiltes Audio Ausgabeanschluss für INPUT 1, 2, 3 und 4.

INPUT 1-Anschluss
Anschluss für Computer RGB und Komponentensignale.

OUTPUT (INPUT 1, 2)-Anschluss
Geteilter Computer-RGB- und Komponentensignale-Ausgabeanschluss für INPUT 1 und 2.

INPUT 2-Anschluss
Anschluss für Computer RGB und Komponentensignale.

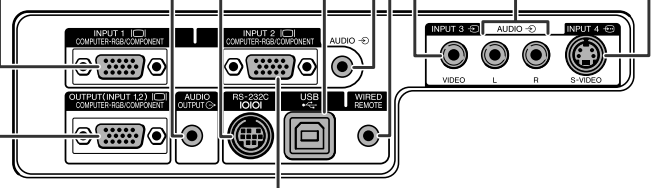
AUDIO INPUT 1, 2-Anschluss
Geteilter Audioeingabeanschluss für INPUT 1 und 2.

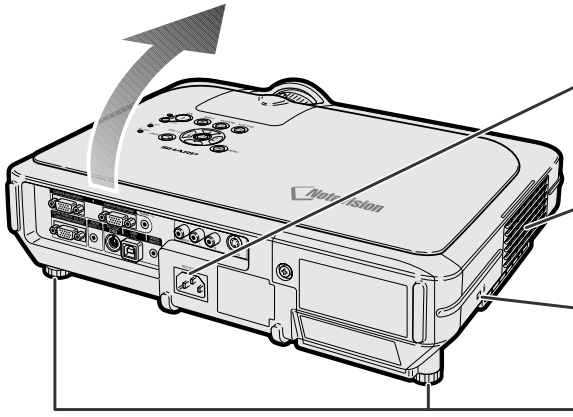
WIRED REMOTE-Eingabeanschluss

INPUT 3-Anschluss
Für den Anschluss eines Videogerätes.

AUDIO (L/R) INPUT 3, 4-Anschlüsse
Geteilter Audioeingabeanschluss für INPUT 3 und 4.

INPUT 4-Anschluss
Anschluss für ein Videogerät mit einem S-VIDEO-Anschluss.





Netzanschluss

Luftaustritt-öffnung

Kensington-Sicherheits-standardanschluss

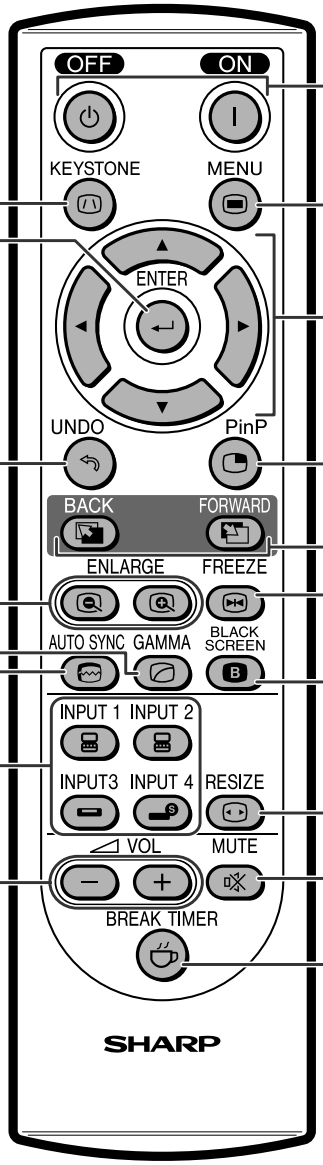
Einstellfuß

Verwendung der Kensington-Sperre

- Dieser Projektor ist mit einem Kensington-Sicherheitsstandardanschluss für die Verwendung des Kensington MicroSaver-Sicherheitssystem ausgestattet. Lesen Sie hinsichtlich der Verwendung die Informationen, die dem System beiliegen, um den Projektor zu sichern.

Transportieren des Projektors
Bevor Sie den Projektor transportieren, muss der Tragegriff vollkommen ausgeklappt werden.

Fernbedienung (Vordersicht)



KEYSTONE-Taste
Zur Einstellung des Keystone oder Digital Shift.

ENTER-Taste
Für die Einstellung der gewählten oder eingestellten Menüpunkte.

UNDO-Taste
Für das Rückgängigmachen eines Bedienschrittes oder für die Rückkehr zu den Grundeinstellungen.

ENLARGE-Tasten (Vergrößern/Verkleinern)
Für das Vergrößern oder Verkleinern eines Bildteils.

GAMMA-Taste
Für das Korrigieren der Helligkeit eines Bildes, wenn das angezeigte Bild aufgrund der Raumhelligkeit schwierig zu sehen ist. Sie können aus vier verfügbaren Gamma-Modi auswählen.

AUTO SYNC-Taste
Für das automatische Einstellen von Bildern, wenn ein Computer angeschlossen ist.

INPUT-Tasten
Zum Umschalten auf die entsprechenden Eingabemodi.

VOL-Tasten
Für das Einstellen des Lautsprecher-Tonpegels.

Netz-Tasten(ON/OFF)
Schaltet die Stromversorgung ein oder aus.

MENU-Taste
Für die Anzeige des Justierungs- und Einstellungsbildschirms.

Einstelltasten (▲, ▼, ◀, ▶)
Für die Wahl der Menüpunkte.

PinP-Taste
Zur Anzeige von Doppelbildern.

FORWARD/BACK-Tasten
Schaltet nach vorne oder hinten, wenn ein Computer mittels eines USB-Kabels angeschlossen ist. Wie die [Page Up]- und [Page Down]-Tasten auf der Computer-Tastatur.

FREEZE-Taste
Für das Einfrieren von Bildern.

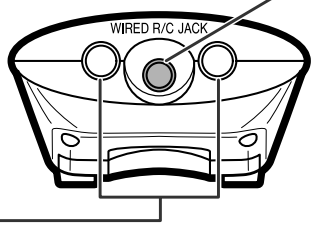
BLACK SCREEN-Taste
Schwarzüberlagerung des Bildschirms.

RESIZE-Taste
Für das Umschalten der Bildwandgröße (NORMAL, UMRANDLING usw).

MUTE-Taste
Zum zeitweisen Stummschalten.

BREAK TIMER-Taste
Zur Anzeige des Pausentimers.

Fernbedienung (Draufsicht)

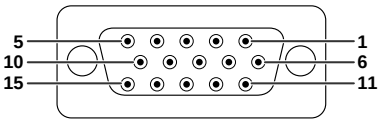


WIRED R/C JACK
Fernbedienungsanschluss an den Projektor.

Signalsender für Fernbedienung

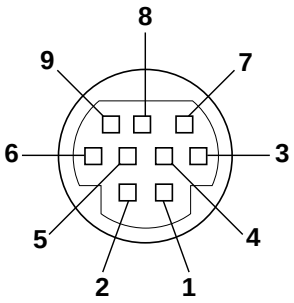
Pin-Belegung

INPUT-1/2-RGB und OUTPUT-Signalanschluss: 15-Pin Mini-D-Sub weiblich



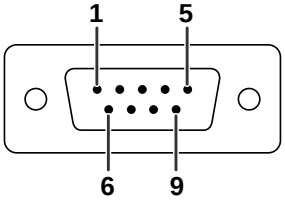
RGB-Eingabe	Komponenteneingabe
1. Videoeingabe (rot)	1. P_R (C_R)
2. Videoausgabe (grün/sync auf grün)	2. Y
3. Videoausgabe (blau)	3. P_B (C_B)
4. Reserveeingabe 1	4. Nicht angeschlossen
5. Composite-Sync	5. Nicht angeschlossen
6. Erde (rot)	6. Erde (P_R)
7. Erde (grün/sync auf grün)	7. Erde (Y)
8. Erde (blau)	8. Erde (P_B)
9. nicht angeschlossen	9. Nicht angeschlossen
10. GND	10. Nicht angeschlossen
11. GND	11. Nicht angeschlossen
12. Bi-directionale Daten	12. Nicht angeschlossen
13. Horizontal-Sync-Signal	13. Nicht angeschlossen
14. Vertikal-Sync-Signal	14. Nicht angeschlossen
15. Datenuhr	15. Nicht angeschlossen

RS-232-Anschluss: 9-Pin Mini-DIN weiblich



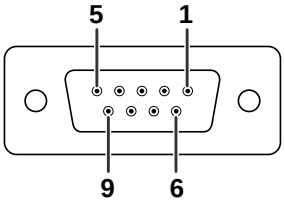
Pin-Nr.	Signal	Name	I/O	Referenz
1	VCC	+3.3V (Reserviert)	Ausgabe	Nicht angeschlossen
2	RD	Daten empfangen	Eingabe	interner Stromkreisanschluss
3	SD	Daten senden	Ausgabe	interner Stromkreisanschluss
4	EXIR	Detektor der Optionseinheit (Reserviert)	Eingabe	Nicht angeschlossen
5	SG	Signalgrund		interner Stromkreisanschluss
6	ERX	IR-Signalempfang von IR-Verstärker (Reserviert)	Eingabe	Nicht angeschlossen
7	RS	Sendeanfrage	Ausgabe	Nicht angeschlossen
8	CS	Sendebereit	Eingabe	Nicht angeschlossen
9	ETX	IR Signal übetragen (Reserviert)	Ausgabe	Nicht angeschlossen

9-Pin D-Sub männlicher Anschluss des DIN-D-Sub-RS-232C-Adapter



Pin-Nr.	Signal	Name	I/O	Referenz
1	CD			Nicht angeschlossen
2	RD	Daten empfangen	Eingabe	interner Stromkreisanschluss
3	SD	Daten senden	Ausgabe	interner Stromkreisanschluss
4	ER			Nicht angeschlossen
5	SG	Signalgrund		interner Stromkreisanschluss
6	DR	Datensatz bereit		Nicht angeschlossen
7	RS	Sendeanfrage	Ausgabe	interner Stromkreisanschluss
8	CS	Sendebereit	Eingabe	interner Stromkreisanschluss
9	CI			Nicht angeschlossen

RS-232C Kabel empfohlene Verbindung: 9-Pin-D-Sub weiblich



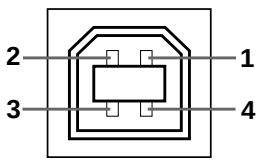
Pin-Nr.	Signal	Pin-Nr.	Signal
1	CD	1	CD
2	RD	2	RD
3	SD	3	SD
4	ER	4	ER
5	SG	5	SG
6	DR	6	DR
7	RS	7	RS
8	CS	8	CS
9	CI	9	CI

Hinweis

- Je nach Systemlayout kann es nötig sein, Pin 4 und Pin 6 beim kontrollierenden Gerät (z. B. Computer) zu verbinden.

Projektor Pin-Nr.	PC Pin-Nr.
4	4
5	5
6	6

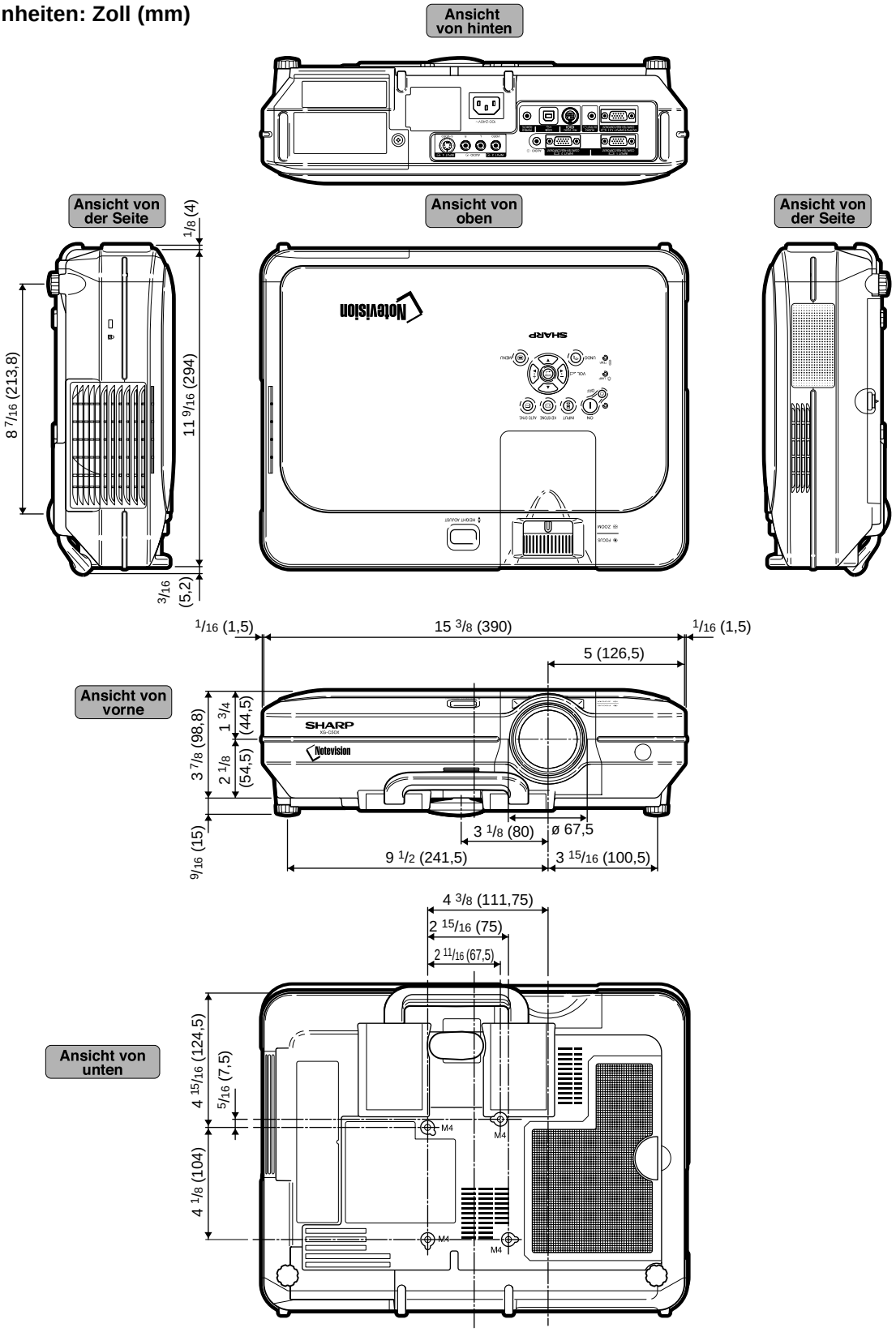
USB-Anschluss: 4-Pin-B-Typ USB-Stecker



Pin-Nr.	Signal	Name
1	VCC	USB-Strom
2	USB–	USB-Daten–
3	USB+	USB-Daten+
4	SG	Signalgrund

Abmessungen

Einheiten: Zoll (mm)



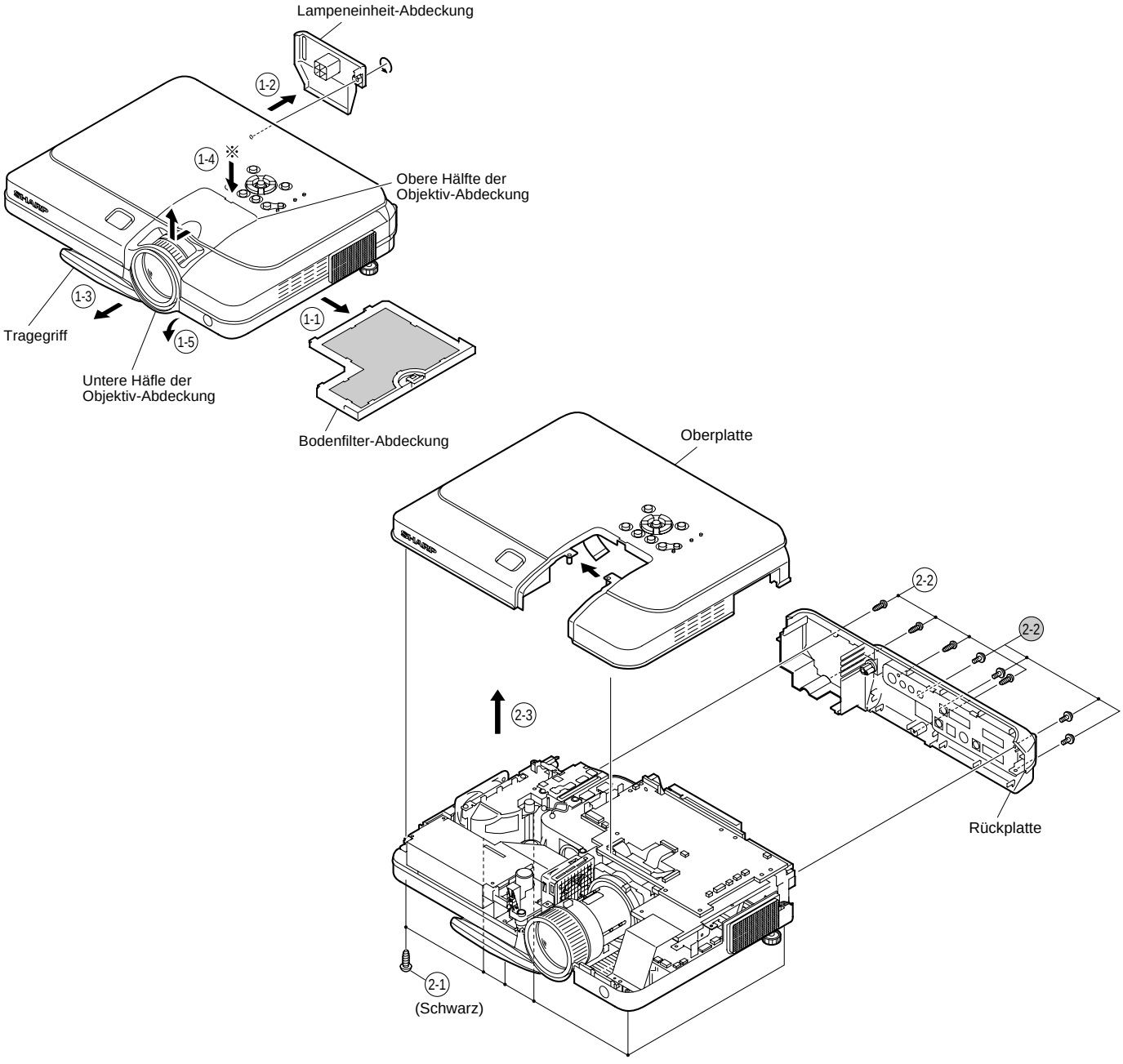
AUSBAU WICHTIGER TEILE

1. Ausbau von Bodenfilter-Abdeckung und Lampeneinheit-Abdeckung

1-1. Bodenfilter-Abdeckung abtrennen.
1-2. Die Sperrschraube von der Lampeneinheit-Abdeckung lösen und die Lampeneinheit-Abdeckung abnehmen.
1-3. Den Tragegriff herausziehen.
1-4. Die mit * markierte Stelle auf der oberen Hälfte der Objektiv-Abdeckung drücken, um die Klaue zu lösen, und dann die obere Objektiv-Abdeckung entfernen.
1-5. Die untere Hälfte der Objektiv-Abdeckung entfernen.

2. Oberplatte und Rückplatte entfernen

2-1. Sechs Sperrschrauben (schwarz) von der Oberplatte entfernen.
2-2. Die acht Sperrschrauben von der Rückplatte entfernen, und die Rückplatte abnehmen.
(2-2:XEBSF30P12000, 2-2:XBBSF30P10000)
2-3. Langsam die Oberplatte anheben und den Steckverbinder von der Schlüssel-Leiterplatte abtrennen. Eine andere Schraube entfernen, und die Oberplatte abnehmen.

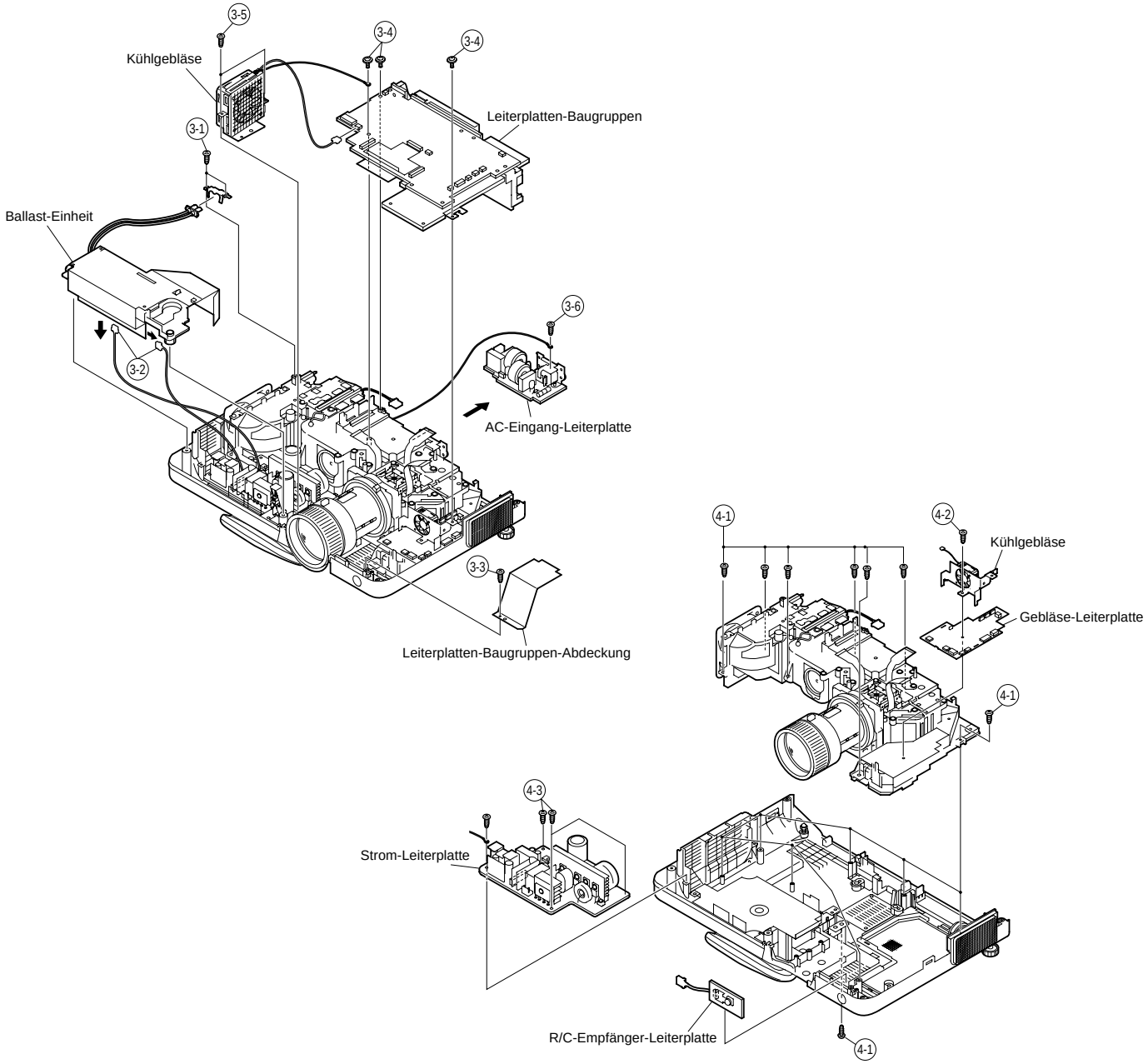


3. Entfernen der Leiterplatten

3-1. Die zwei Sperrschrauben vom Lampenfassung-Winkel entfernen. Den Lampenfassung-Winkel abtrennen.
3-2. Die Ballast-Einheit anheben. Den Steckverbinder abtrennen, und die Ballast-Einheit abtrennen.
3-3. Die Sperrschraube von der Leiterplatten-Einheit-Abdeckung lösen und die Abdeckung abnehmen.
3-4. Die drei Sperrschrauben vom Kühlgebläse entfernen, den Steckverbinder abtrennen, und die Leiterplatten-Baugruppe abnehmen.
3-5. Die zwei Sperrschrauben vom Kühlgebläse entfernen, den Steckverbinder abtrennen, und das Kühlgebläse abnehmen.
3-6. Die Sperrschraube von der Masseklemme entfernen, den Steckverbinder abtrennen, und die AC-Eingang-Leiterplatte abnehmen.

4. Entfernen von Optik-Mechanismus, Gebläse-Leiterplatte, Strom-Leiterplatte und R/C-Empfänger-Leiterplatte.

4-1. Die acht Sperrschrauben vom Optik-Mechanismus entfernen, und den Optik-Mechanismus herausnehmen.
4-2. Die Sperrschraube vom Kühlgebläse entfernen, den Steckverbinder abtrennen, und die Kühlgebläse-Leiterplatte abnehmen.
4-3. Die vier Sperrschrauben von der Strom-Leiterplatte entfernen, und die Strom-Leiterplatte abnehmen.
4-4. Die R/C-Empfänger-Leiterplatte herausnehmen.



RÜCKSTELLUNG DES LAMPEN-TIMERS

1 Das Netzkabel anschließen.

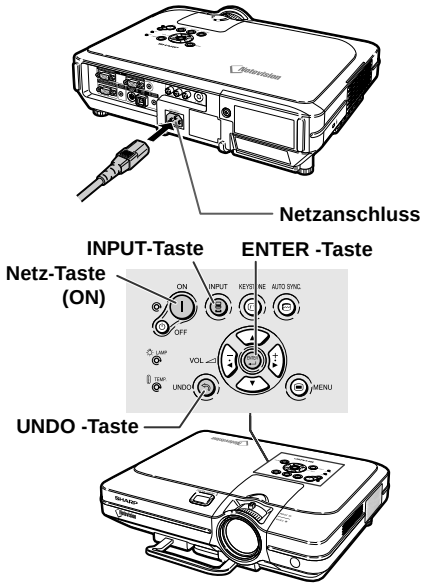
- Das Netzkabel am Netzanschluss des Projektors anschließen.

2 Den Lampen-Timer zurückstellen.

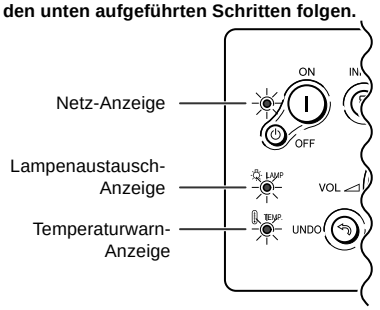
- Während (INPUT), (ENTER) und (UNDO) auf dem Projektor gleichzeitig gedrückt wird, (ON) auf dem Projektor drücken.
- "LAMPE 100%" erscheint und zeigt damit an, dass der Lampen-Timer zurückgestellt ist.

Info

- Stellen Sie sicher, dass Sie den Lampen-Timer nur nach dem Austausch der Lampe zurücksetzen. Wenn Sie den Lampen-Timer zurücksetzen und dieselbe Lampe weiterhin verwenden, könnte die Lampe beschädigt werden oder explodieren.



■ **Die Warnleuchten auf dem Projektor weisen auf Fehlfunktionen im Projektor hin.**
■ **Falls ein Problem auftritt, leuchtet entweder die Temperaturwarn-Anzeige oder die Lampenaustausch-Anzeige rot auf und die Stromversorgung wird ausgeschaltet. Nach dem Ausschalten des Gerätes den unten aufgeführten Schritten folgen.**



Über die Lampenaustausch-Anzeige

Die restliche Lebensdauer der Lampe sinkt auf 0%, wenn sie ungefähr 2.000 Stunden im "Stromsparmodus" bei der Option "ON" verwendet wurde oder nach ungefähr 1.500 Stunden im "Stromsparmodus" bei der Option "OFF" (siehe Seite **69**).
Wenn die restliche Lebensdauer der Lampe auf 6% oder weniger absinkt, wird "▩" auf dem Bildschirm in gelb eingeblendet. Wenn der Prozentsatz 0% wird, ändert "▩" auf "▩" (rot), worauf die Lampe und danach der Projektor automatisch ausgeschaltet werden. Gleichzeitig leuchtet die Lampenaustausch-Anzeige rot auf.
Nachdem Sie zum vierten Mal versucht haben den Projektor einzuschalten, ohne dass die Lampe ausgetauscht wurde, kann der Projektor nicht mehr eingeschaltet werden.

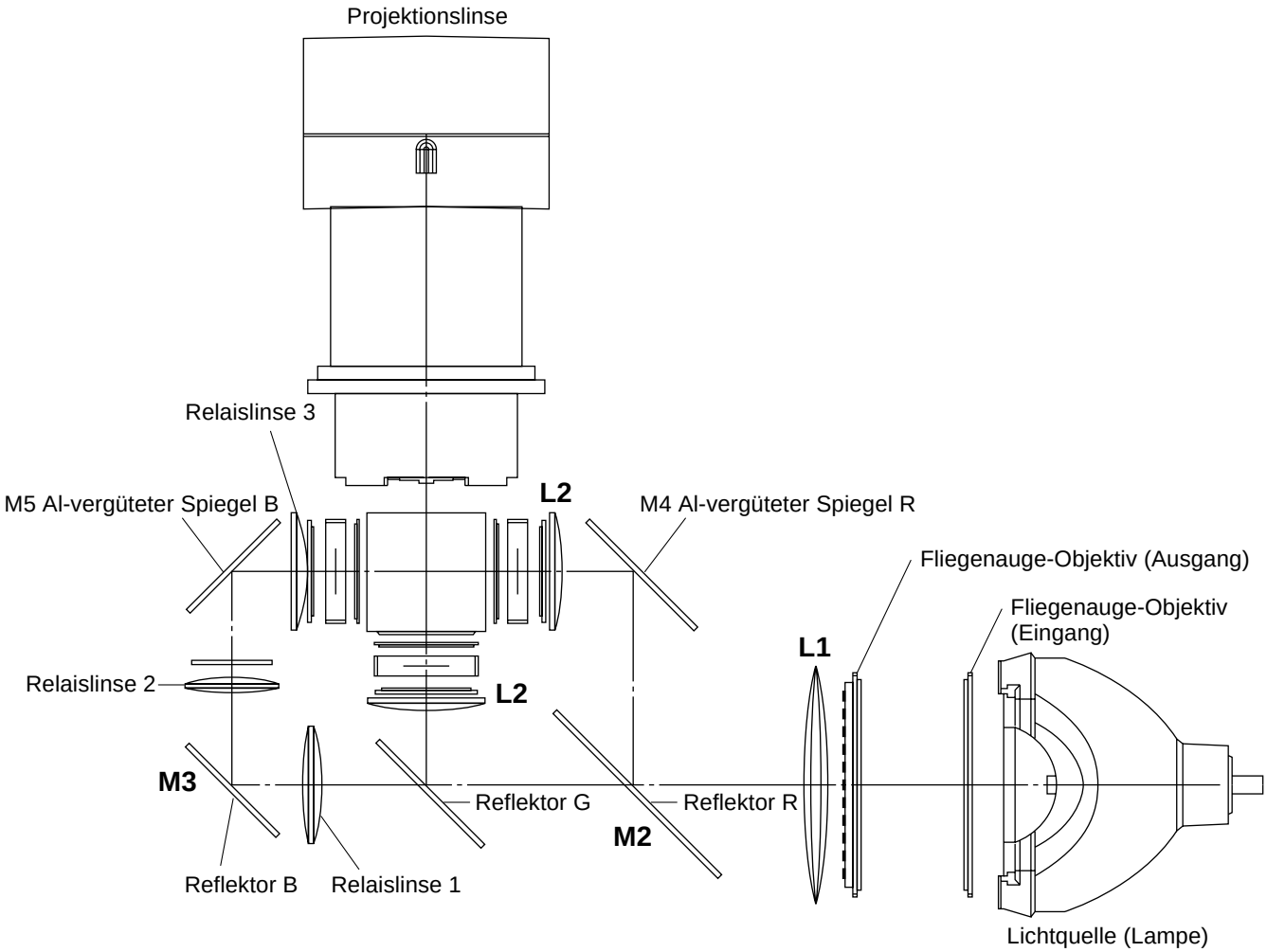
Über die Temperaturwarn-Anzeige

Wenn der Projektor wegen Problemen bei der Aufstellung oder wegen Blockierens der Luftöffnungen zu warm wird, blinkt "TEMP." in der unteren linken Ecke des Bildes. Wenn die Temperatur weiter ansteigt, schaltet sich die Lampe aus und die Temperaturwarn-Anzeige blinkt; der Kühlventilator dreht sich für weitere 90 Sekunden und anschließend wird die Stromversorgung ausgeschaltet. Nachdem "TEMP." angezeigt wird, unbedingt die folgenden Maßnahmen durchführen.

Wartungsanzeige			Symptom	Problem	Abhilfe
Temperatur-warn-Anzeige	Normal: Aus	Unnormal: Rot ein/ Strom aus	Die Temperatur im Inneren des Gerätes ist zu hoch.	• Belüftungsöffnungen blockiert.	• Den Projektor an einem besser belüfteten Ort aufstellen.
				• Kühlventilator beschädigt • Interne Schaltkreise beschädigt • Luftfilter verstopft	• Den Projektor einem von Sharp autorisierten Händler für Projektoren oder dem Kundendienst zur Reparatur geben.
Lampenaus-tausch-Anzeige	Grün ein (Grün blinkt, wenn die Lampe aktiviert ist.)	Rot blinkt / Rot eingeschaltet	Die Lampe muss ausgetauscht werden	• Restliche Lebensdauer der Lampe sinkt auf 6% oder weniger ab.	• Ersetzen Sie die Lampe. • Den Projektor einem von Sharp autorisierten Händler für Projektoren oder dem Kundendienst zur Reparatur oder zum Lampenaustausch geben. • Lassen Sie beim Austausch der Lampe bitte die nötige Vorsicht walten.
		Rot ein/ Strom aus	Die Lampe leuchtet nicht.	• Ausgebrannte Lampe • Lampen-Schaltkreis beschädigt	
Netz-Anzeige	Grün eingeschaltet / Rot eingeschaltet	Rot blinkt	Die Netz-Anzeige blinkt bei eingeschaltetem Projektor rot auf.	• Die Filterabdeckung, die Abdeckung der Lampeneinheit oder die Objektivkappe ist geöffnet.	• Setzen Sie die Filterabdeckung sorgfältigein. • Sollte die Netzanzeige auch bei korrekt eingesetzter Filterabdeckung rot aufblinken, dann wenden Sie sich bitte an Ihren einen von Sharp autorisierten Händler für Projektoren oder anderen Kundendienste.

KURZBESCHREIBUNG DER OPTIK-EINHEIT

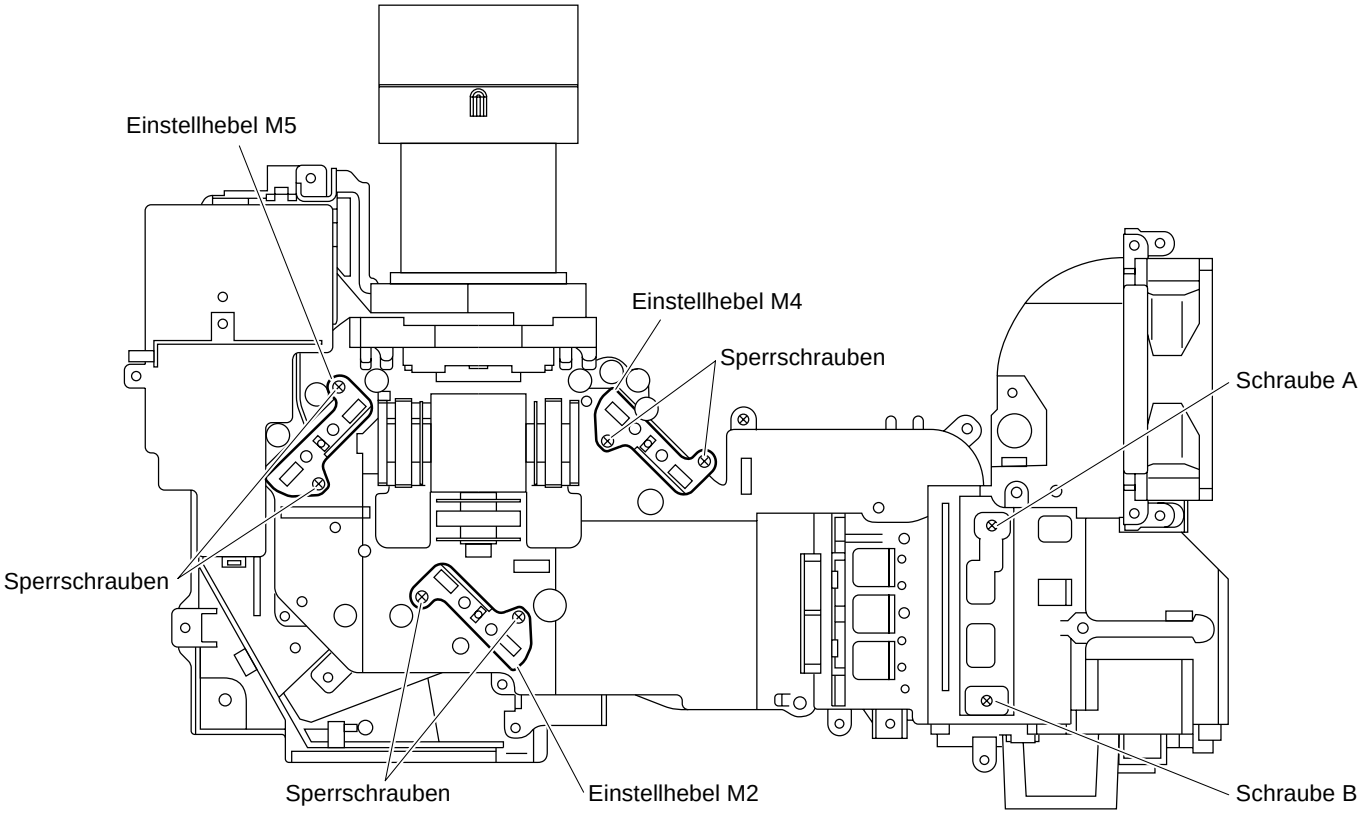
Layout für richtige Einrichtung der optischen Komponenten und Teile (Draufsicht)



Einstellen der Spiegel

Diese Einstellung ist erforderlich, wenn optische Teile des Optik-Mechanismus ersetzt wurden.

1. Die Flachkabel von allen LCD-Platten abtrennen.
2. Die Lampe einschalten.
3. Ein Weißlichtbild projizieren und prüfen, ob ein Farbstich in einer Richtung vorhanden ist. Falls vorhanden, die Einstellhebel M2, M4 und M5 verwenden.
4. Die Einstellhebel-Sperrschrauben lösen, Einstellungen vornehmen, und die Sperrschrauben festziehen.



Korrigieren von Farbabweichungen auf rein weißen Bildschirm beim Ersetzen der Lampe

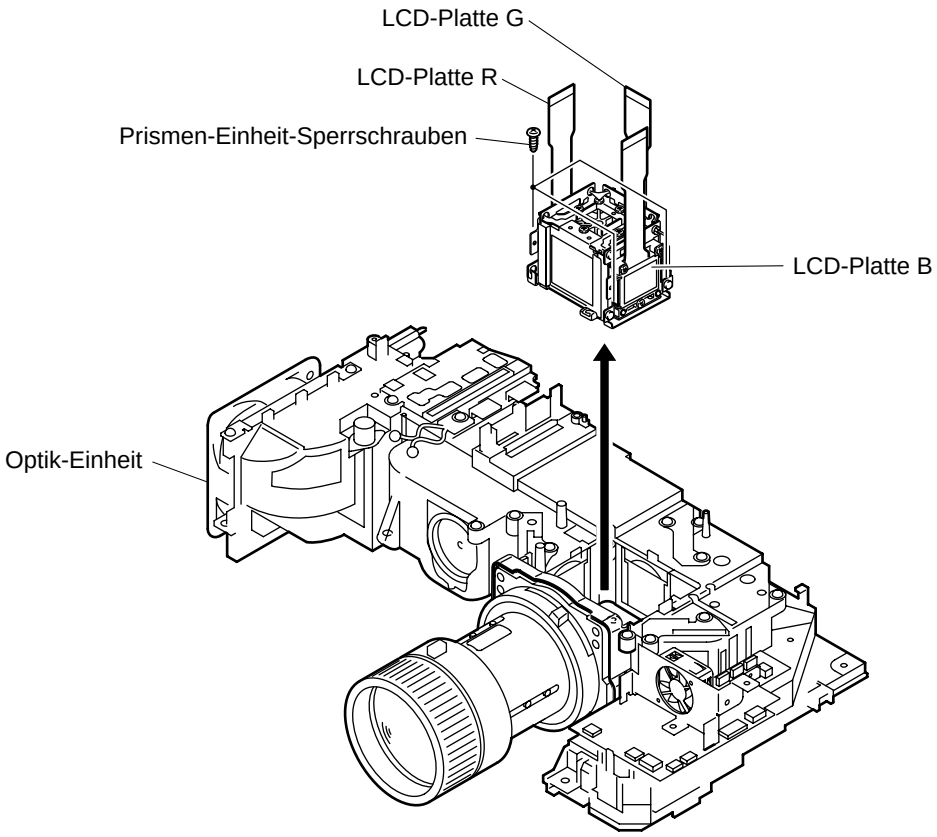
Falls Farbabweichungen rechts und links in einem rein weißen Bildschirm nach dem Ersetzen der Lampe vorgefunden werden, ist es erforderlich, die optische Achse der neuen Lampe nachzujustieren. Die folgenden Schritte ausführen.

1. Die Lampenabdeckung öffnen und die Schrauben A und B am Boden der Lampe lösen.
2. Mit einem Schraubenzieher o.ä. die U-förmige Rille im Fenster D in Pfeilrichtung bewegen.
3. Provisorisch die Schrauben A und B festziehen, die Lampenabdeckung schließen und den rein weißen Bildschirm auf Farbabweichungen prüfen.
4. Die obigen Schritte 1 und 2 wiederholen, bis keine Farbabweichungen vorliegen. Jetzt die Schrauben A und B festziehen.
5. Schließlich die Lampenabdeckung in der ursprünglichen Position befestigen.

Ersetzen der Prismen-Einheit

1. Die vier Sperrschrauben entfernen, und die Prismen-Einheit aus der Optik-Einheit nehmen.
2. Die Prismen-Einheit durch die neue ersetzen. Den obigen Schritt 1 in umgekehrter Reihenfolge ausführen.

Hinweis: Auch wenn nur eine der LCD-Platten defekt ist, ist es erforderlich, die gesamte Prismen-Einheit zu ersetzen. Nicht nur die defekte LCD-Platte ersetzen. Unter den gegebenen Umständen bitte nicht den Displayteil des LCD berühren.



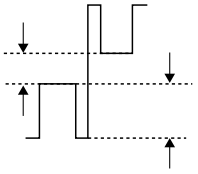
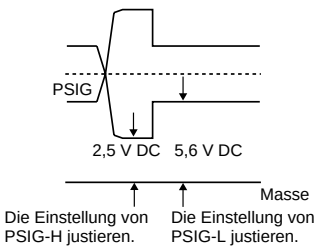
Freigabe der Systemsperre

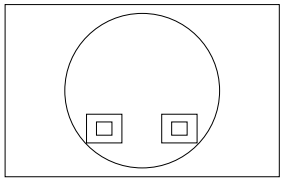
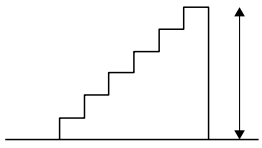
Das Gerät einschalten. Wenn die Systemsperre aktiviert wird, erscheint die System-Nullstellungsanzeige. Danach sind die folgenden Tasten in der vorgeschriebenen Reihenfolge zu betätigen.

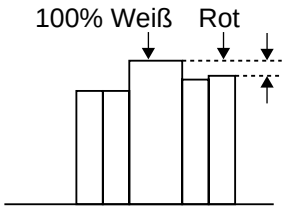
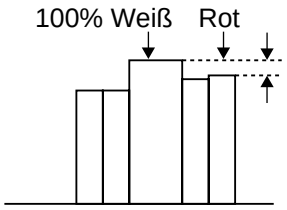
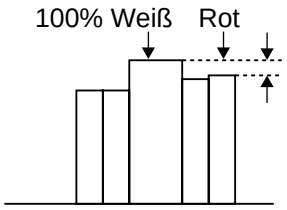
MENU → ENTER → ENTER → MENU → UNDO → UNDO → MENU

Zuerst die MENU-Taste drücken, dann die verbleibenden Tasten innerhalb von 10 Sekunden betätigen.

ELEKTRISCHE EINSTELLUNG

Nr.	Einstellgegenstände	Einstellbedingungen	Einstellverfahren
1	Initialisieren von EEPROM	1. Die Betriebsstromversorgung einschalten (die Lampe leuchtet auf), und das System 15 Minuten lang warmlaufen lassen.	1. Die folgenden Einstellungen vornehmen. S2601 drücken, um auf Prozessmodus zu schalten, und S2 im SSS-Menü ausführen. Jetzt ist der EEPROM, ausgenommen für die PC-Schnittstelleneinheit, initialisiert. Nicht S1 ausführen, oder die PC-Schnittstelleneinheit selber wird initialisiert. (Die PC-Schnittstelleneinheit ist werkseitig eingestellt.) Zum Einstellen der PC-Schnittstelleneinheit siehe Abschnitt "Einstellen der PC-Schnittstelleneinheit" auf der letzten Seite.
2	Einstellung der RGB1-Schwarzpegel-Signalamplitude	1. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: OUTPUT1 Gegenstand: G1-BLK, G1-GAIN Für die Farbe R die Gegenstände R1-BLK und R1-GAIN wählen. Für die Farbe B die Gegenstände B1-BLK und B1-GAIN wählen. 2. Sicherstellen, dass die Prozesseinstellung-Farbbalken angezeigt werden. 3. Für die Farbe G ein Oszilloskop an Stift (2) von P1301 anschließen. 4. Für die Farben R und B das Oszilloskop jeweils an Stift (1) von P1301 und Stift (3) von P1301 anschließen.	1. Den Gegenstand G1-GAIN wählen. Mit dem Steuerschalter am Gerät oder der betreffenden Taste an der Fernbedienung die Einstellung so einstellen, dass die Signalamplitude 4,0 Vs-s ±0,05 V beträgt. 2. Den Gegenstand G1-BLK wählen. Mit dem Steuerschalter am Gerät oder der betreffenden Taste an der Fernbedienung die Einstellung so einstellen, dass der Weiß-Weiß-Pegel 1,8 Vs-s ±0,1 V beträgt. 3. Gleichermaßen für die anderen Farben R und B verfahren.  ∗ Die G1-Gegenstände sind mit den R1- und B1-Gegenstände verknüpft. Wenn die Einstellung für G1-BLK geändert wurde, sind deshalb die Einstellungen für R1-BLK und B1-BLK gleichermaßen geändert. Wenn die Einstellung für G1-GAIN geändert wurde, sind deshalb die Einstellungen für R1-GAIN und B1-GAIN gleichermaßen geändert. Zuerst die G1-Einstellungen vornehmen, und dann die Einstellungen für R1 und B1 nach Bedarf korrigieren.
3	Einstellung von PSIG	1. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: OUTPUT2 Gegenstand: PSIG-H, PSIG-L Sicherstellen, dass die Einstellungen für PSIG-H und PSIG-L bei 64 bzw. 100 sind.	1. Die angezeigte PSIG-Wellenform erhalten. (Das XGA-Signal einspeisen.) 

Nr.	Einstellgegenstände	Einstellbedingungen	Einstellverfahren
4	Prüfen der Abtasten-Halte-Impulsphase	1. Das XGA-Mode 75-Hz Schwarz-Signal einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: OUTPUT3 Gegenstand: GCK-PHASE	1. Den festen Wert prüfen. Fester Wert: 6
5	Einstellung der RGB-Gegenspannung	1. Das Gegenspannung-Einstellsignal (XGA), wie von der Technischen Abteilung vorbereitet, einspeisen. 2. Die folgende Gruppe und die folgenden Gegestände wählen. Gruppe: OUTPUT3 Gegenstand: RC (R), GC (G), BC (B)	1. Mit dem Steuerschalter am Gerät oder der betreffenden Taste an der Fernbedienung die Einstellungen einstellen, um Flimmern zu minimieren. 2. Wenn die Ergebnisse in der Mitte und an beiden Seiten auf dem Bildschirm inkonsistent sind, die Einstellungen nachjustieren, um das gleiche Ergebnis an beiden Seiten zu erhalten.
6	Einstellung der RGB-Gradation-Reproduktion	1. Das SMPTE-Mustersignal einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: OUTPUT1 Gegenstand: G1-BLK	1. Bestätigen, dass die 100% und 95% Weißgradation ebenso wie die 0% und 5% Schwarzgradation unterscheidbar sind. 2. Wenn die Weißgradation unterschiedlich aussieht, die Einstellung für G1-BLK fein justieren. 
7	Einstellung des RGB-Weißabgleichs	1. Das 32-Stufen-Grauskalasignal (XGA, 60 Hz) einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: OUTPUT1 Gegenstand: R1-BLK (R), B1-BLK (B)	1. Die Einstellungen R1-BLK and B1-BLK so justieren, dass sie die vorgeschriebene Gradationsbalance habe (entsprechend Standard-Monitor).
8	Einstellung von Video-AGC	1. Das NTSC 10-Stufen-Grauskalasignal einspeisen. 2. Die folgende Gruppe und und die folgenden Gegenstände wählen. Gruppe: VIDEO Gegenstand: AGC-ADJ 3. Das Oszilloskop zwischen TP4501 und TP4502 anschließen.	1. Mit dem Steuerschalter am Gerät oder der betreffenden Taste an der Fernbedienung die Einstellung so einstellen, dass der Weiß-Schwarz-Pegel 0,72 Vs-s ±0,01 V beträgt. 
9	Einstellung von Videohelligkeit/ Kontrast	1. Das NTSC 100% Fenster-Mustersignal einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: VIDEO Gegenstand: AUTO, PICTURE/BRIGHT	1. Das Signal einspeisen. Mit dem Steuerschalter am Gerät oder der betreffenden Taste an der Fernbedienung den Gegenstand AUTO wählen. Die Einstellung wird automatisch vorgenommen. 2. Dann die Einstellung von PICTURE/ BRIGHT justieren, bis das Signal bitfrei wird.

Nr.	Einstellgegenstände	Einstellbedingungen	Einstellverfahren
10	Einstellung von Video-Farbton	1. Das Teil-Farbbalken-Signal einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: VIDEO1 Gegenstand: TINT	1. Den festen Wert bestätigen. Fester Wert: 128
11	Einstellung von NTSC-Farbsättigung	1. Das Teil-Farbbalken-Signal einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: VIDEO Gegenstand: N-COLOR ∗ Das Oszilloskop an Pin (1) von P1301 anschließen.	1. Den festen Wert bestätigen. Fester Wert: 54 (Zur Bezugnahme: 0,4 Vs-s) 
12	Einstellung der PAL-Farbsättigung	1. Das PAL-Farbbalken-Signal einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: VIDEO Gegenstand: P-COLOR ∗ Das Oszilloskop an Stift (1) von P1301 anschließen.	1. Den festen Wert bestätigen. Fester Wert: 51 (Zur Bezugnahme: 0,4 Vs-s) 
13	Einstellung der SECAM-Farbsättigung	1. Das SECAM-Farbbalken-Signal einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: VIDEO Gegenstand: S-COLOR ∗ Das Oszilloskop an Stift (1) von P1301 anschließen.	1. Den festen Wert bestätigen. Fester Wert: 48 (Zur Bezugnahme: 0,6 Vs-s) 
14	Einstellung des Video-Weißabgleichs	1. Das NTSC-Testbildröhren-Mustersignal einspeisen. 2. Die folgende Gruppe und die folgenden Gegestnände wählen. Gruppe: VIDEO Gegenstand: V-R1-BLK, V-B1-BLK	1. Mit dem Steuerschalter am Gerät oder der betreffenden Taste an der Fernbedienung die Einstellungen einstellen, die den gleichen Weißabgleich wie auf dem Standard-Monitor haben.
15	Einstellung der COMPO-Helligkeit	1. Das 0%-Graumustersignal (480I) einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: COMPO Gegenstand: G-BRIGHT	1. Das Signal an INPUT1 einspeisen. Die Einstellung so justieren, dass einige Bites auf dem Bildschirm fehlen.

Nr.	Einstellgegenstände	Einstellbedingungen	Einstellverfahren
16	Einstellung von COMPO CB-Offset und CR-Offset	1. Das Y-0% Helligkeit, Cb und Cr 0% Weißmuster-Farbdifferenz-Signal (480I) einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: COMPO Gegenstand: AUTO	1. Das Signal einspeisen. Mit dem Steuerschalter am Gerät oder der betreffenden Taste an der Fernbedienung den Gegenstand AUTO wählen. Die Einstellung wird automatisch vorgenommen.
17	Einstellung von COMPO-Weißabgleich	1. Das DTV-Testbildröhren-Mustersignal einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: COMPO Gegenstand: CR-R1-BLK, C-B1-BLK	1. Mit dem Steuerschalter am Gerät oder der betreffenden Taste an der Fernbedienung die Einstellungen einstellen, die den gleichen Weißabgleich wie auf dem Standard-Monitor haben.
18	Einstellung des RGB-Weißabgleichs	1. Das RGB 50%-Graumustersignal einspeisen. 2. Die folgende Gruppe und die folgenden Gegenstände wählen. Gruppe: OUTPUT1 Gegenstand: S-R1-BLK, S-R1-GAIN, S-G1-BLK, S-G1-GAIN, S-B1-BLK, S-B1-GAIN 3. Den Helligkeitsmesser BM-5 und das Standard-Whiteboard bereit halten.	1. Sicherstellen, dass die Einstellung von S-R1-BLK die gleiche ist wie die von R1-BLK. Sicherstellen, dass die Einstellung von S-G1-BLK die gleiche ist wie die von R1-BLK. Sicherstellen, dass die Einstellung von S-B1-BLK die gleiche ist wie die von R1-BLK. Sicherstellen, dass die Einstellung von S-R1-GAIN die gleiche ist wie die von R1-GAIN. 2. Die Einstellungen von S-B1-GAIN und S-G1-GAIN so justieren, dass die Farbsättigung am Helligkeitsmesser wie folgt angezeigt wird. x: 313 ±7/1000 y: 350 ±10/1000

Teaching-Intervalle: 18
Helligkeit-einstellbare Richtung: Helligkeit höher durch höhere Einstellung (zu prüfen)
Einstellpunkte: Dreidimensional (zu prüfen)
Gradation 4 (zu prüfen)
Gradation 5 (zu prüfen)
Gradation 6 (zu prüfen)
Andere Gradationen, nicht zu prüfenEinstellbare Farben: R, G und B einstellbar (zu prüfen)

(2) Farbabweichung-Korrektur (Einstellung)
C50 Bedingungen Einrichtung ( )
Korrekturverfahren-Einstellungen
Gradation 7: 2. Korrekturwert mit niedrigerer Gradation zu verwenden.
Gradation 6: 0. Korrektur mit Korrekturkoeffizient.
Gradation 5: 0. Korrektur mit Korrekturkoeffizient.
Gradation 4: 0. Korrektur mit Korrekturkoeffizient.
Gradation 3: 1. Korrekturwert mit höherer Gradation zu verwenden.
Gradation 2: 1. Korrekturwert mit höherer Gradation zu verwenden.
Gradation 1: 4. Anfangswert zu verwenden.
Gradation 0: 4. Anfangswert zu verwenden.

Für das betreffende Modell den in (2) eingegebenen Namen verwenden, um die Farbabweichung-Korrektur zu starten. Wenn das Gerät optische Eigenschaften hat, die sich von den Normaleigenschaften stark unterscheiden oder wenn es fehlende Farbabweichung-Linien aufweist, den Teaching-Vorgang für das betreffende Gerät ausführen. Seine spezifizierten Korrekturkoeffizienten bei der Einstellung verwenden.

Nr.	Einstellgegenstände	Einstellbedingungen	Einstellverfahren
19	Prüfen und Nachjustieren des Weißabgleichs	1. Die Einstellbedingungen für jeden Gegenstand sind wie folgt: Für RGB-Eingang siehe Gegenstand 7. Für Video-Eingang siehe Gegenstand 13. Für COMPO-Eingang siehe Gegenstand 16.	1. Sicherstellen, dass der Weißabgleich so ist, wie beim Standardmonitor angegeben. Nur Nachjustierung in der Reihenfolge RGB-Eingang, Video-Eingang und COMPO-Eingang verfahren.
20	Farbbezogene Leistung prüfen	1. Das Farbbalken-Signal empfangen.	1. L1 im Prozessmodus wählen. Die Leistung von Farbe und Farbton prüfen.
21	Die bildbezogene Leistung prüfen	1. Das Testbildröhren-Mustersignal empfangen.	1. L2 im Prozessmodus wählen. Bild, Helligkeit und Schärfe prüfen.
22	Die RGB-Leistung prüfen	1. Das RGB-Signal empfangen.	1. L4 im Prozessmodus wählen. Bild, Helligkeit, Rot, Blau, Takt, Phase, H-POS und V-POS prüfen.
23	Die Ausschalt-Timer-Funktion prüfen		1. OFF im Prozessmodus wählen. Sicherstellen, dass der Ausschalt-Timer mit 5-Minuten-Anzeige startet, 1 Minute für 1 Sekunde herunterzählt, und ausschalten, wenn 0 Minuten angezeigt wird.
24	Prüfen der Thermistor-Funktion	1. Den Thermistor mit einem Haarfön erhitzen.	1. Sicherstellen, dass die Temperatur angezeigt wird.
25	Automatische Sync-Funktion	1. Das Phasen-Prüfmustersignal empfangen.	1. Sicherstellen, dass Takt, Phase, H-POS und V-POS automatisch im Modus VGA/S-VGA/XGA eingestellt werden können.
26	Die USB-Leistung prüfen	1. Mit dem USB-Kabel das Gerät an einen PC anschließen.	1. Mit der Fernbedienung sicherstellen, dass Einspeise- und Rückführvorgänge auf dem Bildschirm des PC wirksam sind.
27	Werkseitige Einstellungen		1. Die folgenden Einstellungen vornehmen. Ziel / Prozesseinstellung / Fernbedienung-Einstellungen Nordamerika-Modelle: S4 "Werkseitige Einstellung 4" Inlandsmodelle: S5 "Werkseitige Einstellung 5" Andere Modelle: Nordmerika: S3 "Werkseitige Einstellung 3"

Einstellung der PC-Schnittstelleneinheit

1. Initialisieren von EEPROM
   1) SW2801 drücken, um auf Prozessmodus zu schalten.
   2) S1 im SSS-Menü ausführen. (Mit S1 wird die Platine alleine initialisiert. Nicht S2 ausführen, oder alle Justierdaten, ausgenommen die für PC-Schnittstelle, werden initialisiert.
   3) Sicherstellen, dass die Programmversion "VER. XXX" im Menü SPECIAL die neueste ist.
2. Pegel-Einstellungen
   2-1. Einstellen des Oszilloskops
   Den Oszilloskop-Bereich auf DC1V/div und Sμ S/div stellen.
   2-2. Anschließen der PC-Schnittstelle
   1) Das vorgeschriebene Kabel zwischen ANALOG OUTPUT (am Signalgenerator) und der Buchse DSUB (INPUT1 am Projektor) anschließen.
   2) Den Eingangswähler des Projektors auf INPUT1 stellen.
   3) Den Signalgenerator auf XGA-Modus stellen (1024x768, 60 Hz, 32-Stufen-Gradation). Außerdem die Ausgangsamplitude (zwischen schwarz und weiß) auf 700 mVs-s einstellen (terminiert mit 75 Ohm Impedanz).
   4) Netzstrom einschalten.
   2-3. Einstellgegenstände
   1) Einstellung von RGB Treiber/Verstärkung
      (1) Das Fenster-Mustersignal einspeisen, das 100% und 0% Signale hat.
      (2) AUTO unter den A/D-Gegenständen im Prozessmodus wählen, und die Einstellungen vornehmen.

● Eingabe des Einstellprozeßmodus

Es gibt die folgenden zwei Verfahren.

- Den SW2001 an der Ausgangs-Einheit drücken.
- Die folgenden Tasten in der vorgeschriebenen Reihenfolge betätigen.
  Netz→Einstell oben→Einstell unten→Einstell oben→Einstell unten→ENTER→ENTER→MENU

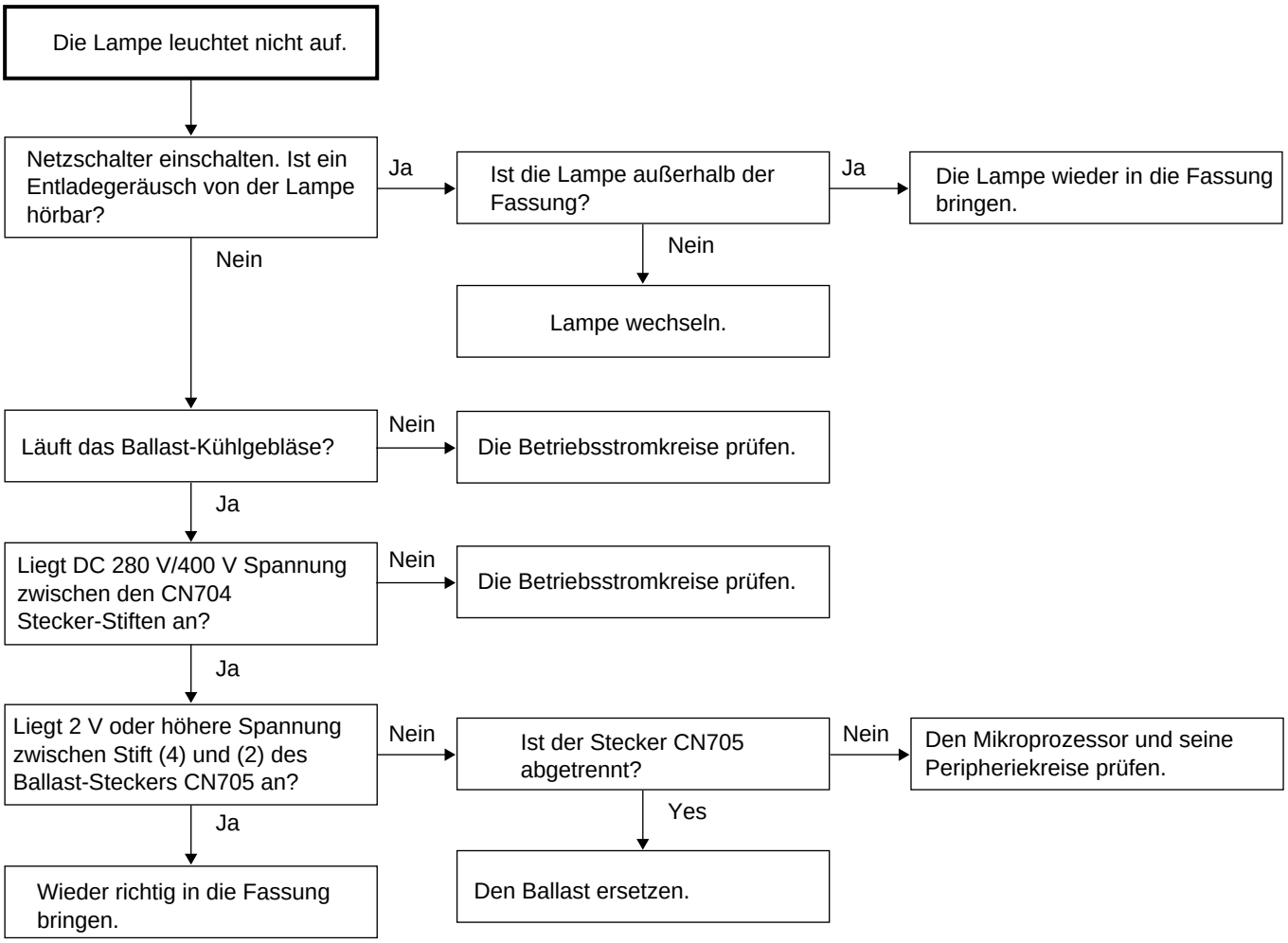
● Einstellmodus-Prozessmenü

Gruppe	Untergruppe	Gegenstand
Adjust PC Image	A/D	R-BRIGHT G-BRIGHT B-BRIGHT R-D B-D G-D AD-AUT
Adjust RGB Image	OUTPUT1	R1-BLK R1-GAIN G1-BLK G1-GAIN B1-BLK B1-GAIN S-R1-BLK S-R1-GAIN S-G1-BLK S-G1-GAIN S-B1-BLK S-B1-GAIN
Adjust Panel Drive	OUTPUT2	PSIG-H PSIG-L
Adjust Commn Voltage	OUTPUT3	RC GC BC GCK-PHASE
Adjust Video Image	VIDEO	PICTURE BRIGHT TINT N-COLOR P-COLOR S-COLOR AGC-CNT AGC-ADJ STAT-GAIN V-R1-BLK V-B1-BLK VIDEO-AUTO
Adjust Component Image	COMP	G-BRIGHT CB-OFFSET CR-OFFSET C-R1-BLK C-B1-BLK COMPO-AUTO

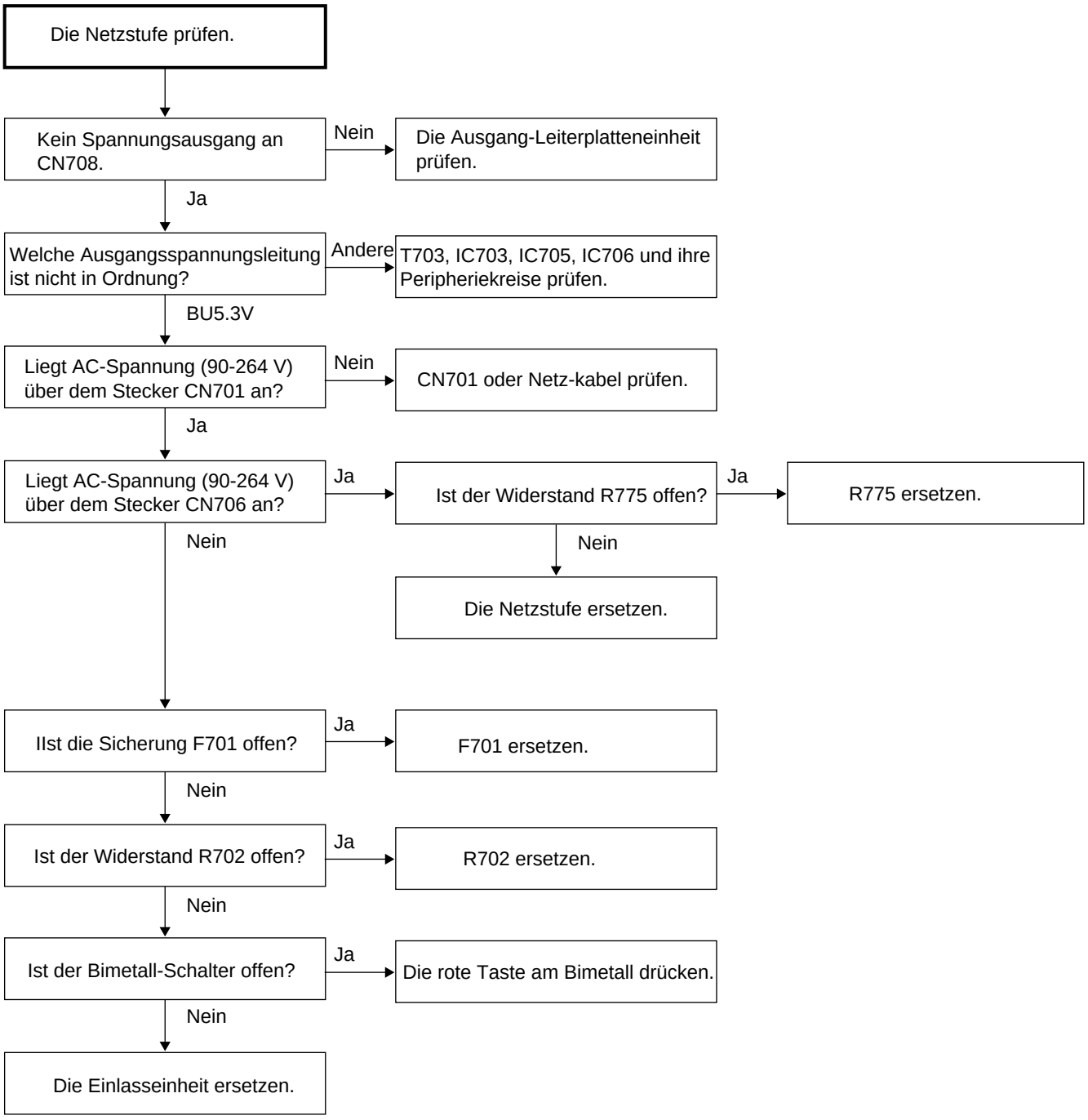
Gruppe	Untergruppe	Gegenstand	
Process Mode	LINE	L1 L2 L4 OFF TEMP OFF SENSOR CHECK	
Initial Setting	SSS	TIME S1 S2 S3 S4 S5	
Sample Pattern	PATTERN	RGB RGB[50] CROSS FOCUS STEP COLOR CHR	
Adjust CVIC	CVIC	PROGRESSIVE	MODE IP MDSW PTGSW C-TESTSW C-ILG-LY C-MOD-LY C-VE-LV
		ENHANCE-VIDE	ENH-PLUS ENH-MINUS DFC
		ENHANCE-HDTV	ENH-PLUS ENH-MINUS DFC
		ENHANCE-RGB	MODE ENH-GAIN ENH-PLUS
		SCREEN	CUBIC-RGB CUBIC-VIDEO
		NR	YNR-LEVEL YNR-K YNR-FSEL CNR-LEVEL CNR-K CNR-FSEL CNR-FILSW
		PTG	TBL-NO TESTSW ENABLE MV-F VDDYP

Gruppe	Untergruppe	Gegenstand	
Adjust CVIC		CMS-HUE	CMS-HUE-R CMS-HUE-Y CMS-HUE-G CMS-HUE-C CMS-HUE-B CMS-HUE-M
		CMS-SAT	CMS-SAT-R CMS-SAT-Y CMS-SAT-G CMS-SAT-C CMS-SAT-B CMS-SAT-M
		CMS-VAL	CMS-VAL-R CMS-VAL-Y CMS-VAL-G CMS-VAL-C CMS-VAL-B CMS-VAL-M DEGAMMA
Adust Digital Convergence	CONVER	CC R-CNV-H G-CNV-H B-CNV-H R-CNV-V G-CNV-V B-CNV-V	
Vesion Cehck etc	SPECIAL	IPL IPL2 E2PROM ADR RD/WR USB-MODE	

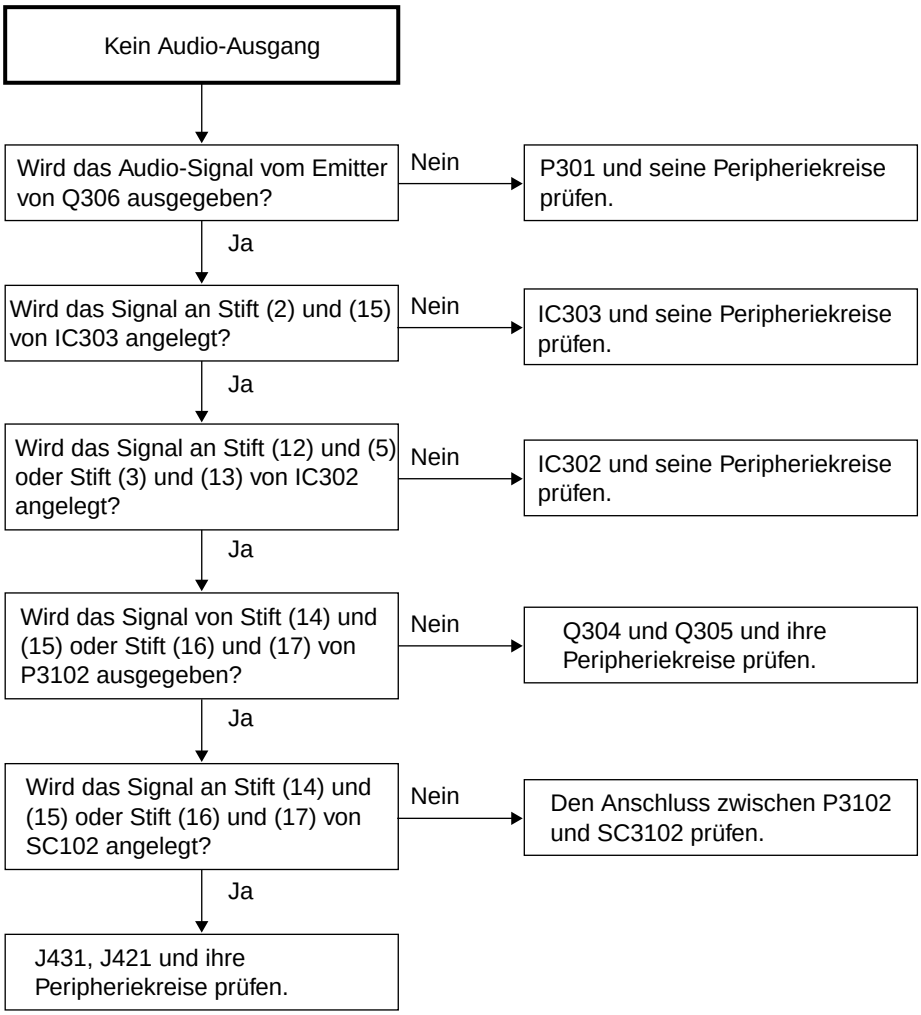
FEHLERSUCHTABELLE



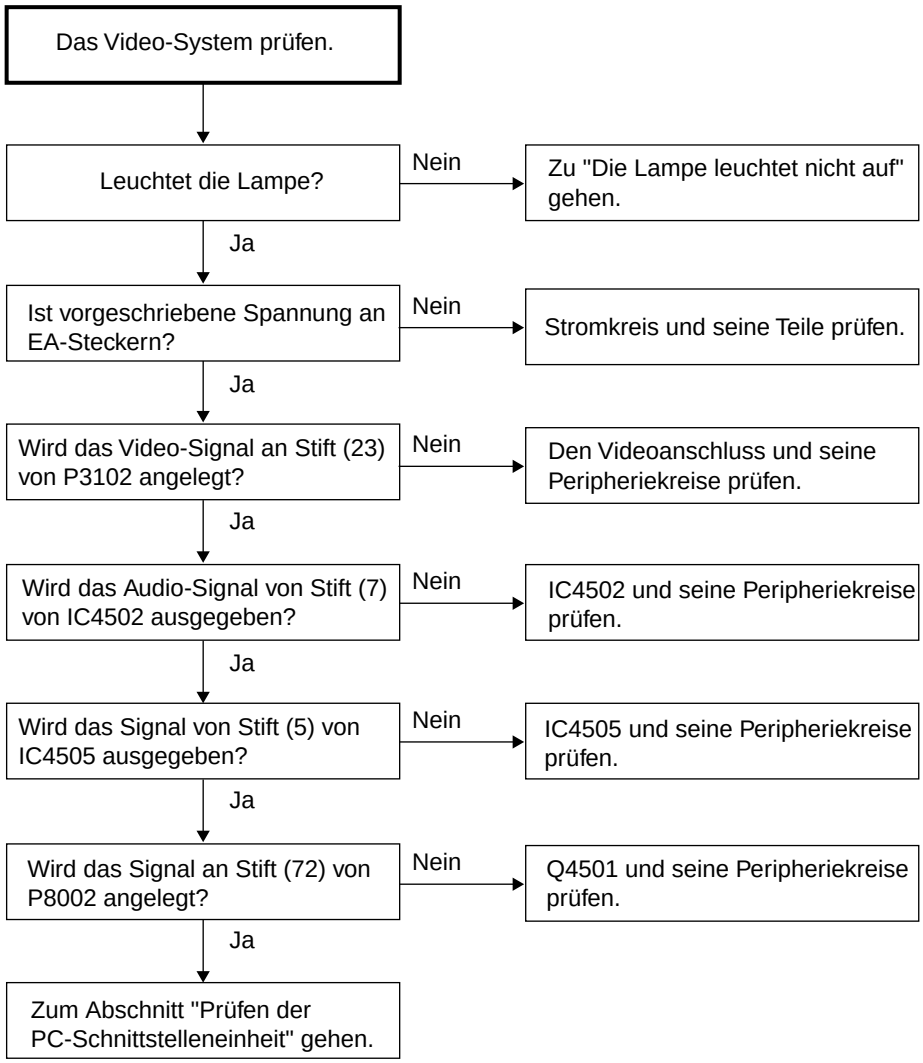
FEHLERSUCHTABELLE (Fortsetzung)



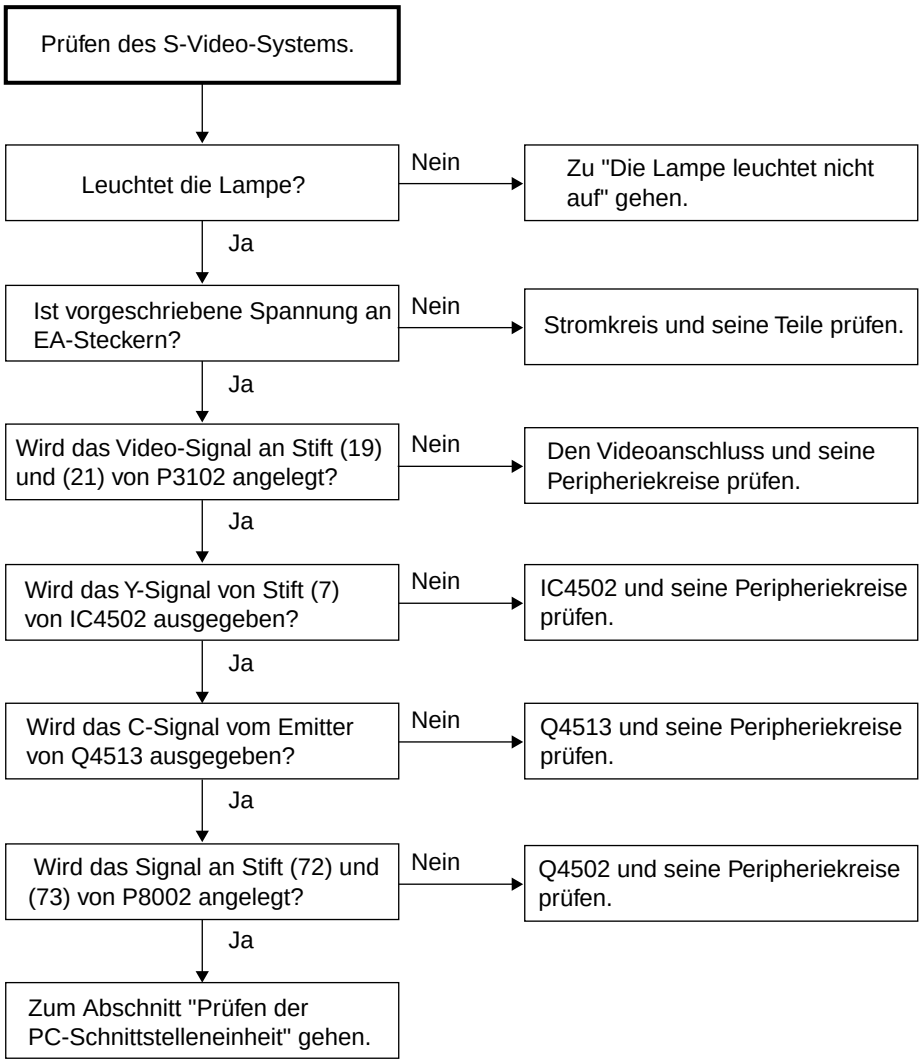
FEHLERSUCHTABELLE (Fortsetzung)


Kein Audio-Ausgang
Wird das Audio-Signal vom Emitter von Q306 ausgegeben?
Nein
P301 und seine Peripheriekreise prüfen.
Ja
Wird das Signal an Stift (2) und (15) von IC303 angelegt?
Nein
IC303 und seine Peripheriekreise prüfen.
Ja
Wird das Signal an Stift (12) und (5) oder Stift (3) und (13) von IC302 angelegt?
Nein
IC302 und seine Peripheriekreise prüfen.
Ja
Wird das Signal von Stift (14) und (15) oder Stift (16) und (17) von P3102 ausgegeben?
Nein
Q304 und Q305 und ihre Peripheriekreise prüfen.
Ja
Wird das Signal an Stift (14) und (15) oder Stift (16) und (17) von SC102 angelegt?
Nein
Den Anschluss zwischen P3102 und SC3102 prüfen.
Ja
J431, J421 und ihre Peripheriekreise prüfen.

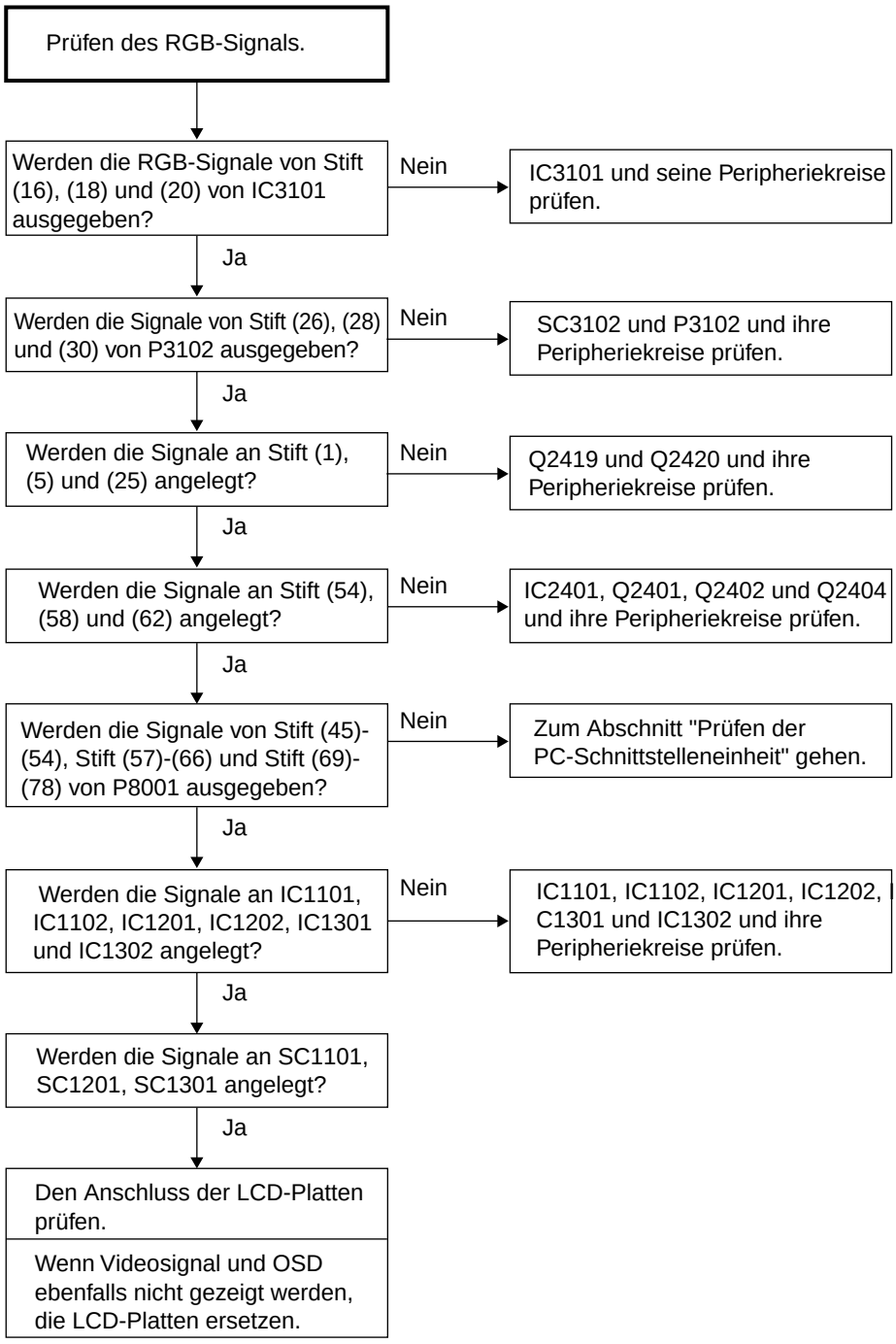
FEHLERSUCHTABELLE (Fortsetzung)



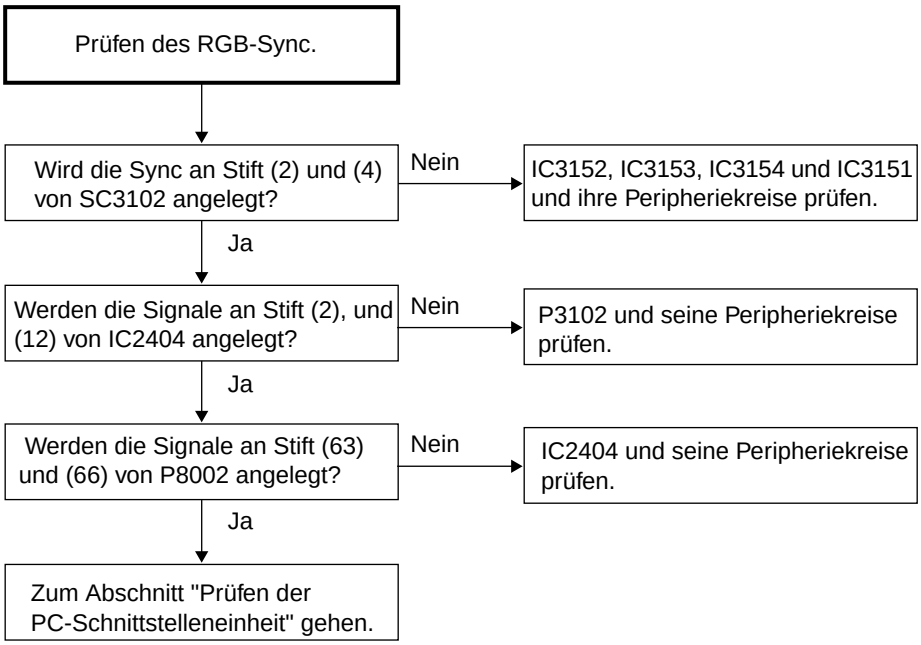
FEHLERSUCHTABELLE (Fortsetzung)



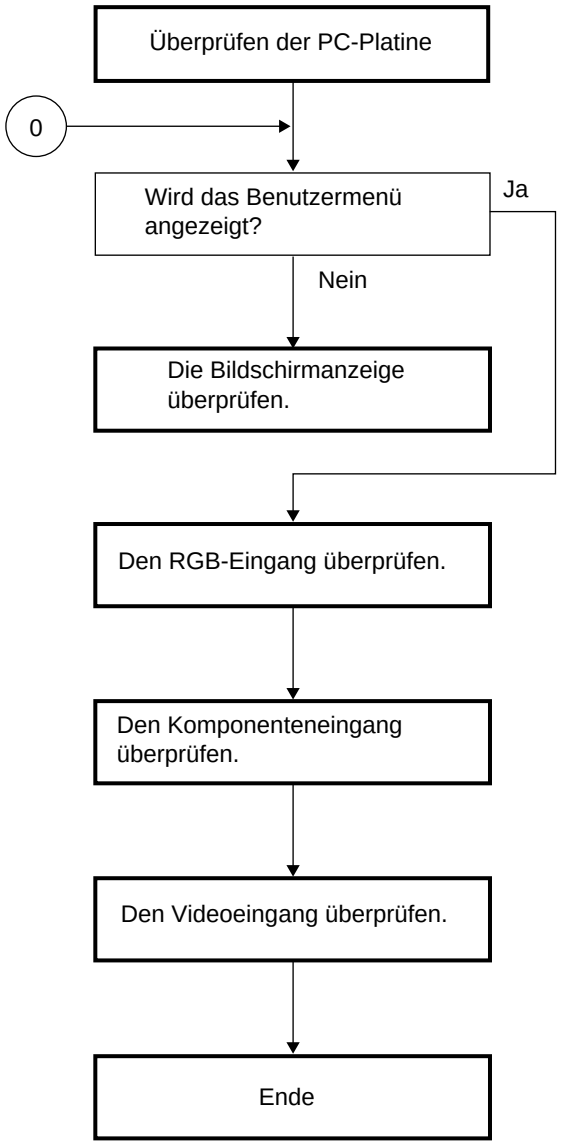
FEHLERSUCHTABELLE (Fortsetzung)


Prüfen des RGB-Signals.
Werden die RGB-Signale von Stift (16), (18) und (20) von IC3101 ausgegeben?
Nein
IC3101 und seine Peripheriekreise prüfen.
Ja
Werden die Signale von Stift (26), (28) und (30) von P3102 ausgegeben?
Nein
SC3102 und P3102 und ihre Peripheriekreise prüfen.
Ja
Werden die Signale an Stift (1), (5) und (25) angelegt?
Nein
Q2419 und Q2420 und ihre Peripheriekreise prüfen.
Ja
Werden die Signale an Stift (54), (58) und (62) angelegt?
Nein
IC2401, Q2401, Q2402 und Q2404 und ihre Peripheriekreise prüfen.
Ja
Werden die Signale von Stift (45)-(54), Stift (57)-(66) und Stift (69)-(78) von P8001 ausgegeben?
Nein
Zum Abschnitt "Prüfen der PC-Schnittstelleneinheit" gehen.
Ja
Werden die Signale an IC1101, IC1102, IC1201, IC1202, IC1301 und IC1302 angelegt?
Nein
IC1101, IC1102, IC1201, IC1202, IC1301 und IC1302 und ihre Peripheriekreise prüfen.
Ja
Werden die Signale an SC1101, SC1201, SC1301 angelegt?
Ja
Den Anschluss der LCD-Platten prüfen.
Wenn Videosignal und OSD ebenfalls nicht gezeigt werden, die LCD-Platten ersetzen.

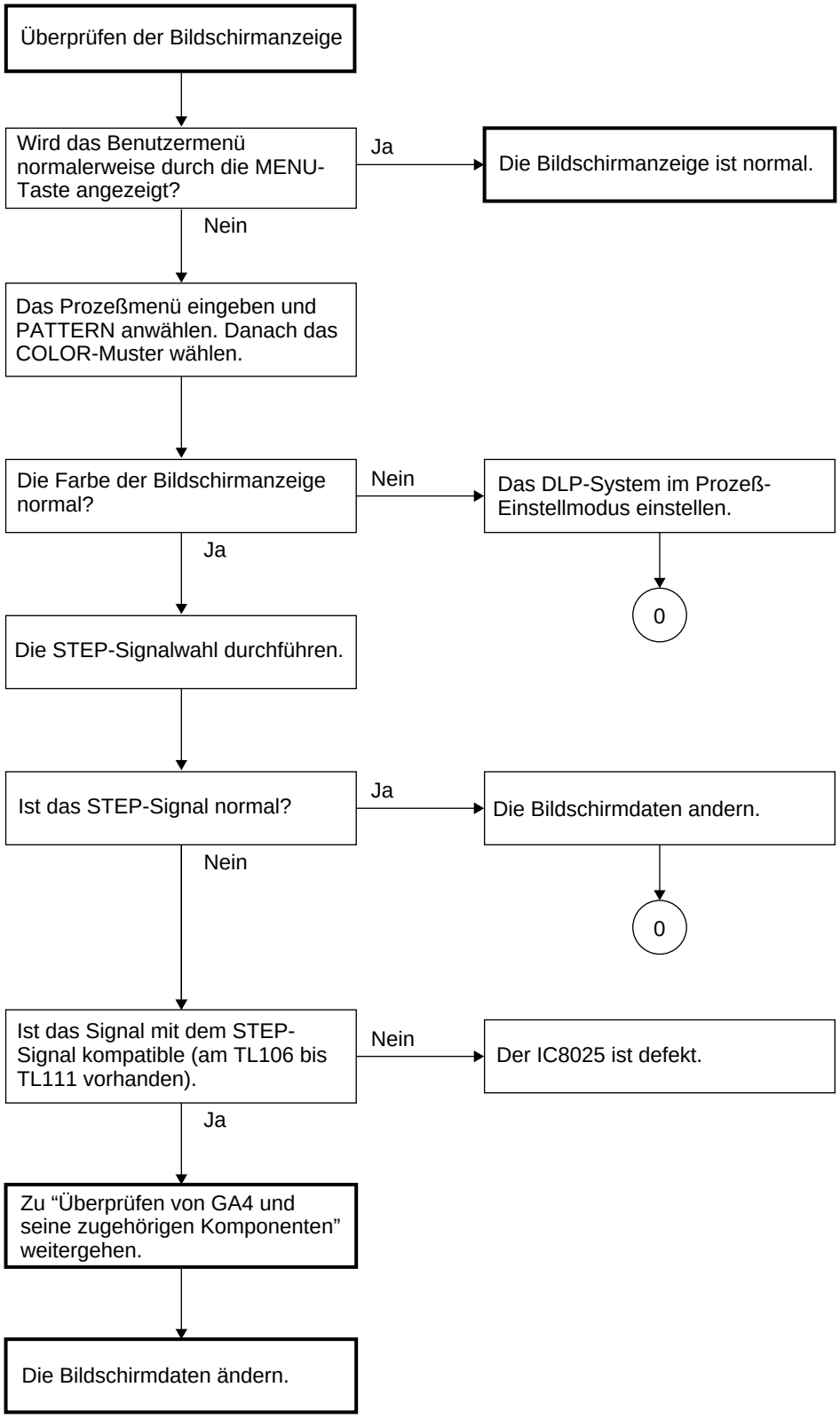
FEHLERSUCHTABELLE (Fortsetzung)


Prüfen des RGB-Sync.
Wird die Sync an Stift (2) und (4) von SC3102 angelegt?
Nein
IC3152, IC3153, IC3154 und IC3151 und ihre Peripheriekreise prüfen.
Ja
Werden die Signale an Stift (2), und (12) von IC2404 angelegt?
Nein
P3102 und seine Peripheriekreise prüfen.
Ja
Werden die Signale an Stift (63) und (66) von P8002 angelegt?
Nein
IC2404 und seine Peripheriekreise prüfen.
Ja
Zum Abschnitt "Prüfen der PC-Schnittstelleneinheit" gehen.

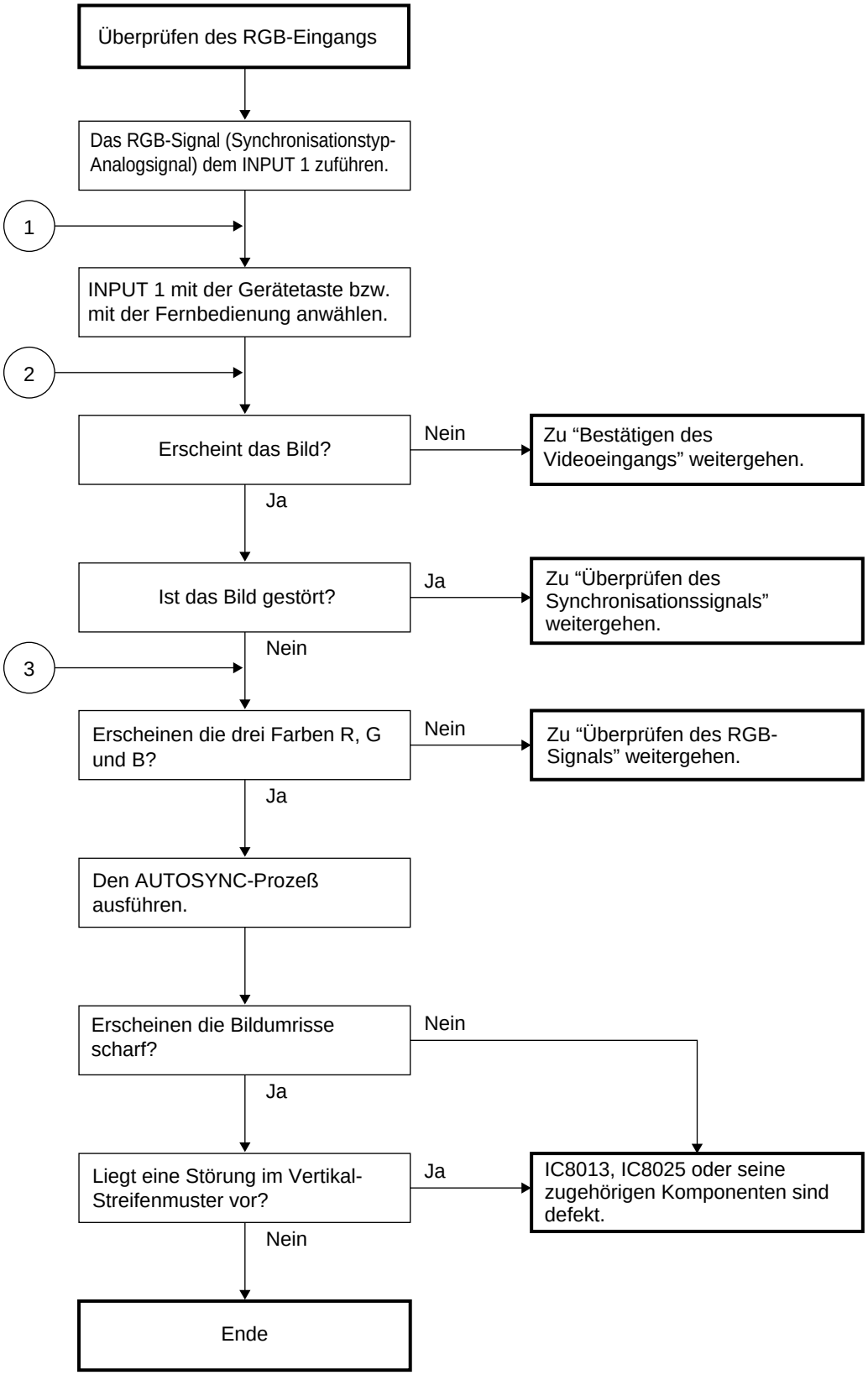
FEHLERSUCHTABELLE für PC I/F EINHEIT



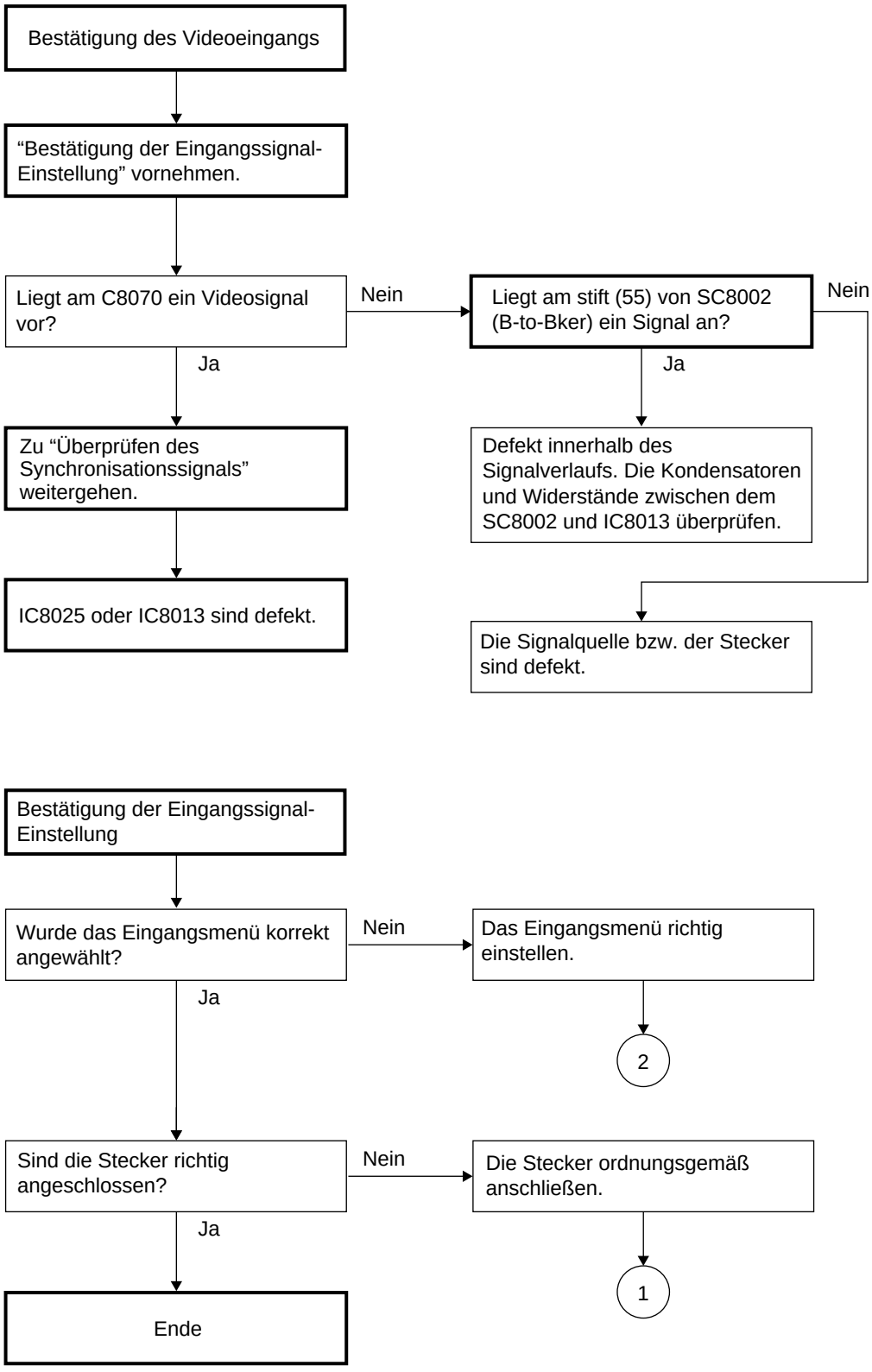
FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)



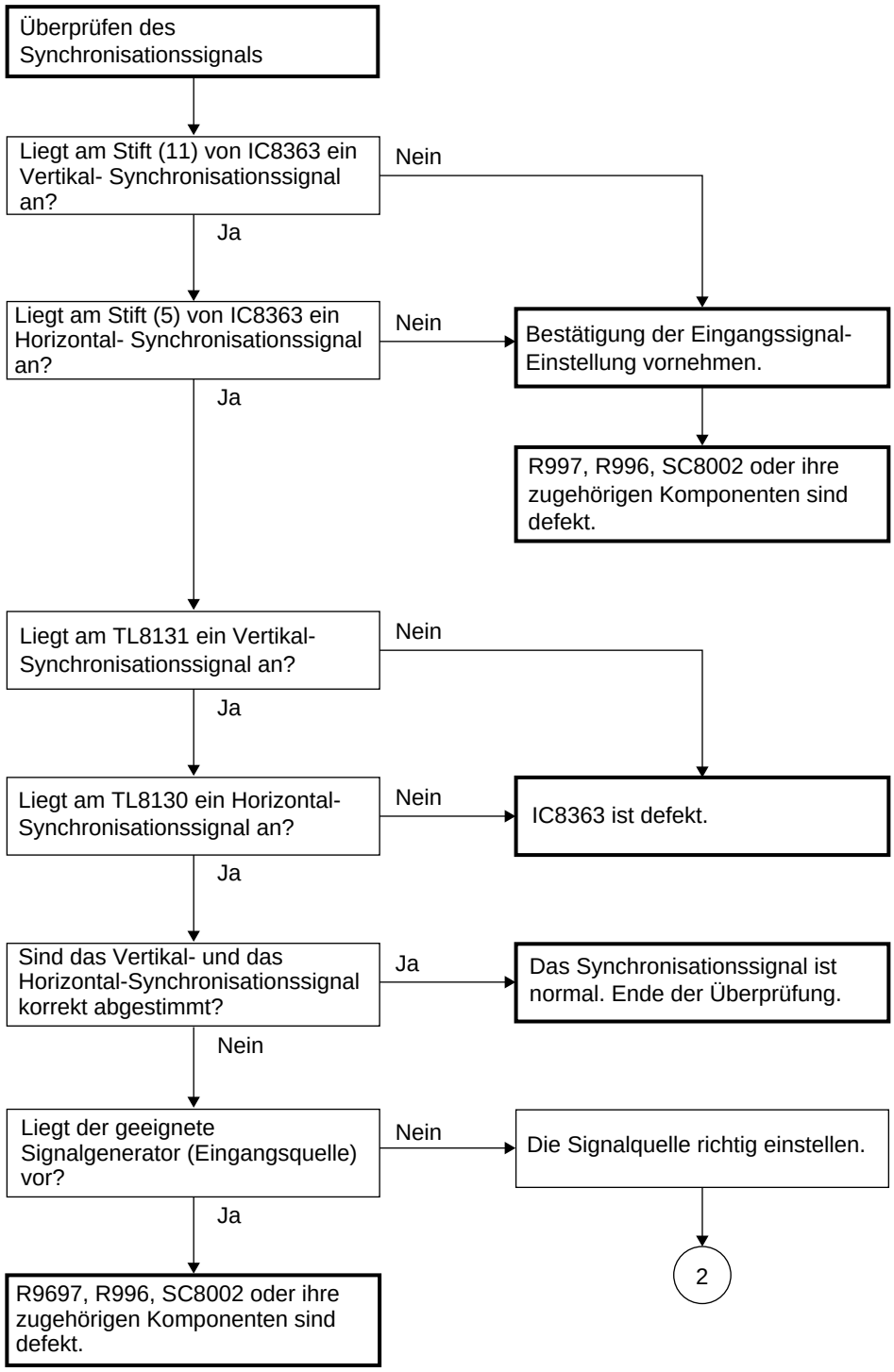
FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)



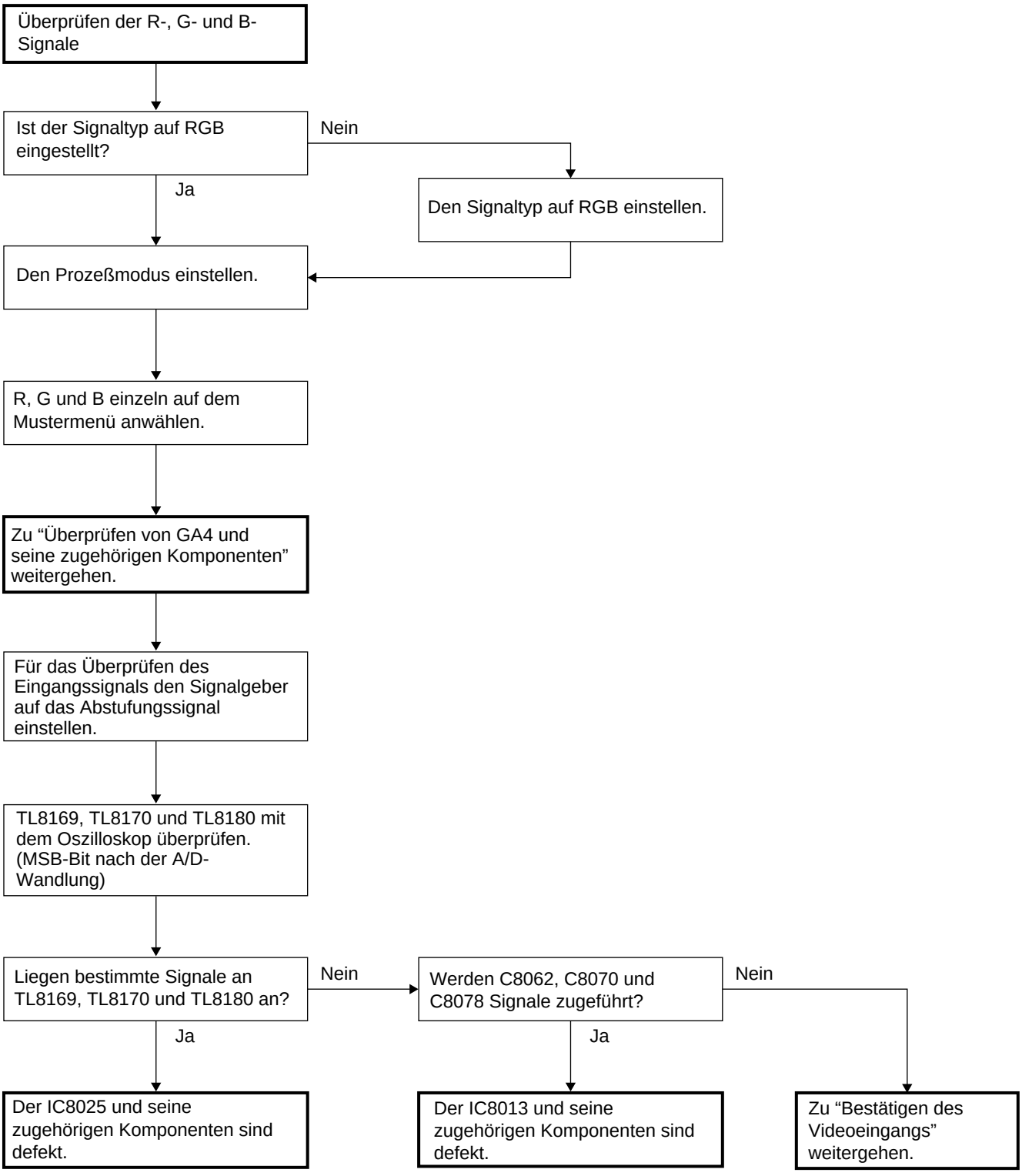
FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)



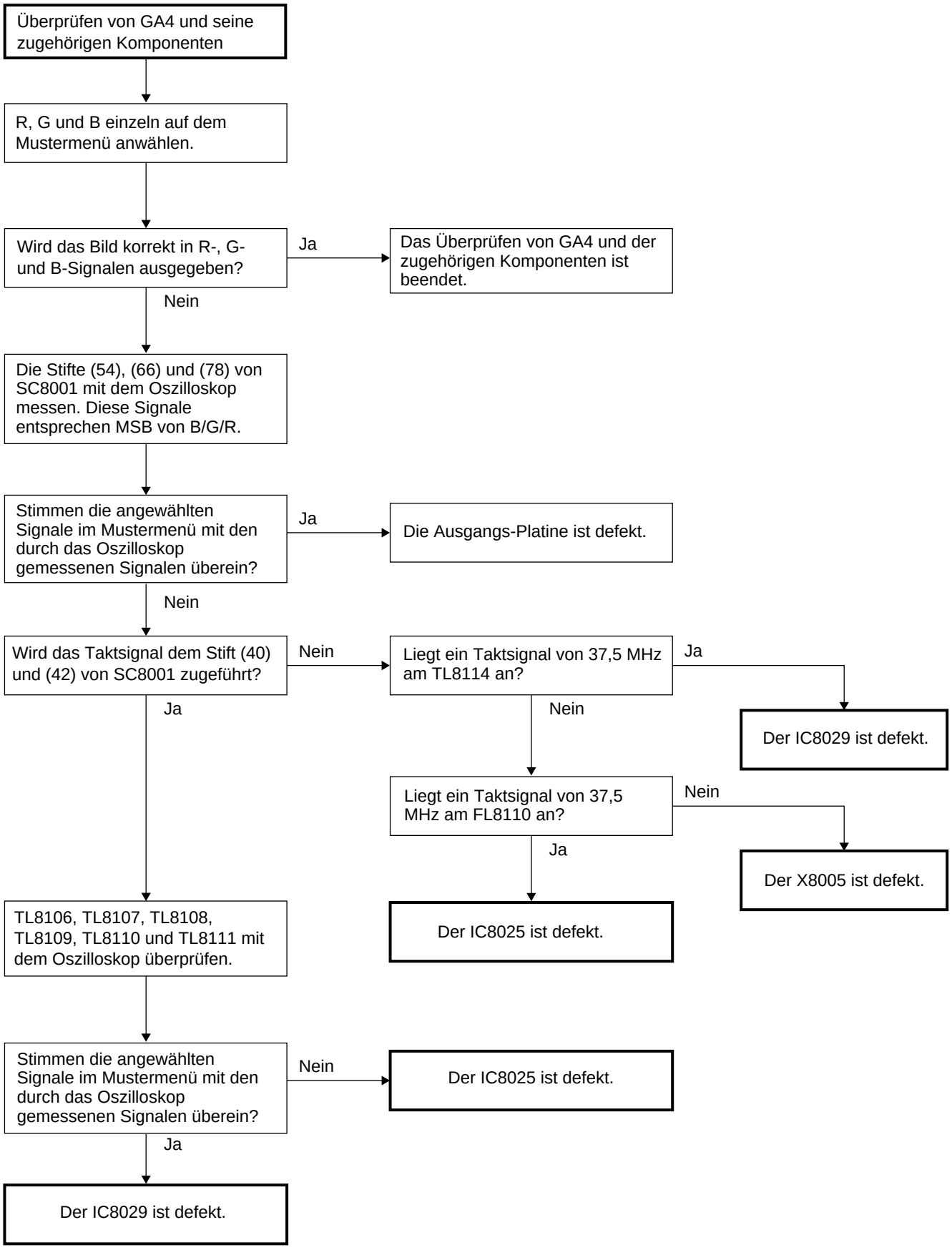
FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)



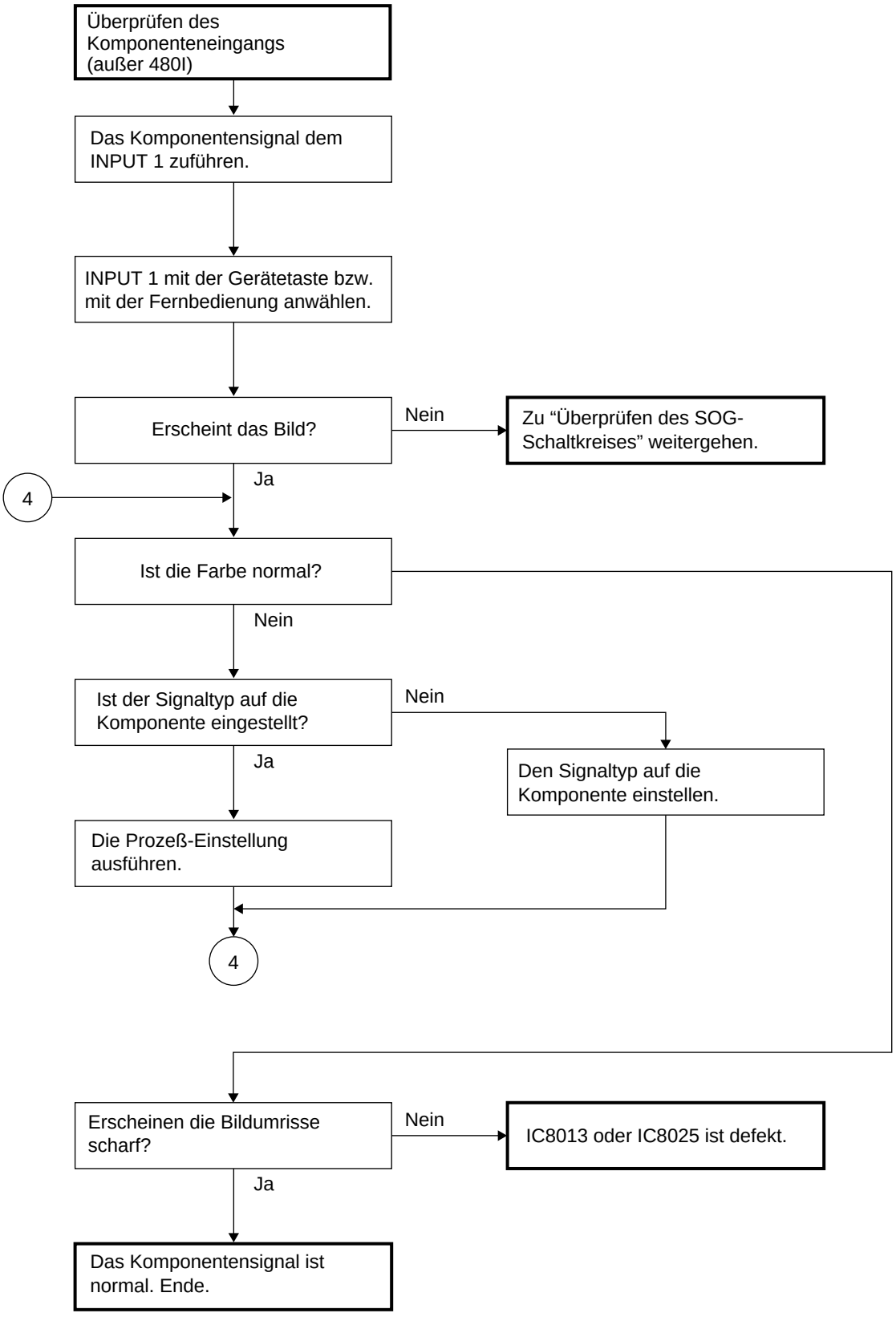
FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)


Überprüfen der R-, G- und B-Signale
Ist der Signaltyp auf RGB eingestellt?
Nein
Ja
Den Signaltyp auf RGB einstellen.
Den Prozeßmodus einstellen.
R, G und B einzeln auf dem Mustermenü anwählen.
Zu “Überprüfen von GA4 und seine zugehörigen Komponenten” weitergehen.
Für das Überprüfen des Eingangssignals den Signalgeber auf das Abstufungssignal einstellen.
TL8169, TL8170 und TL8180 mit dem Oszilloskop überprüfen. (MSB-Bit nach der A/D-Wandlung)
Liegen bestimmte Signale an TL8169, TL8170 und TL8180 an?
Nein
Werden C8062, C8070 und C8078 Signale zugeführt?
Nein
Ja
Ja
Der IC8025 und seine zugehörigen Komponenten sind defekt.
Der IC8013 und seine zugehörigen Komponenten sind defekt.
Zu “Bestätigen des Videoeingangs” weitergehen.

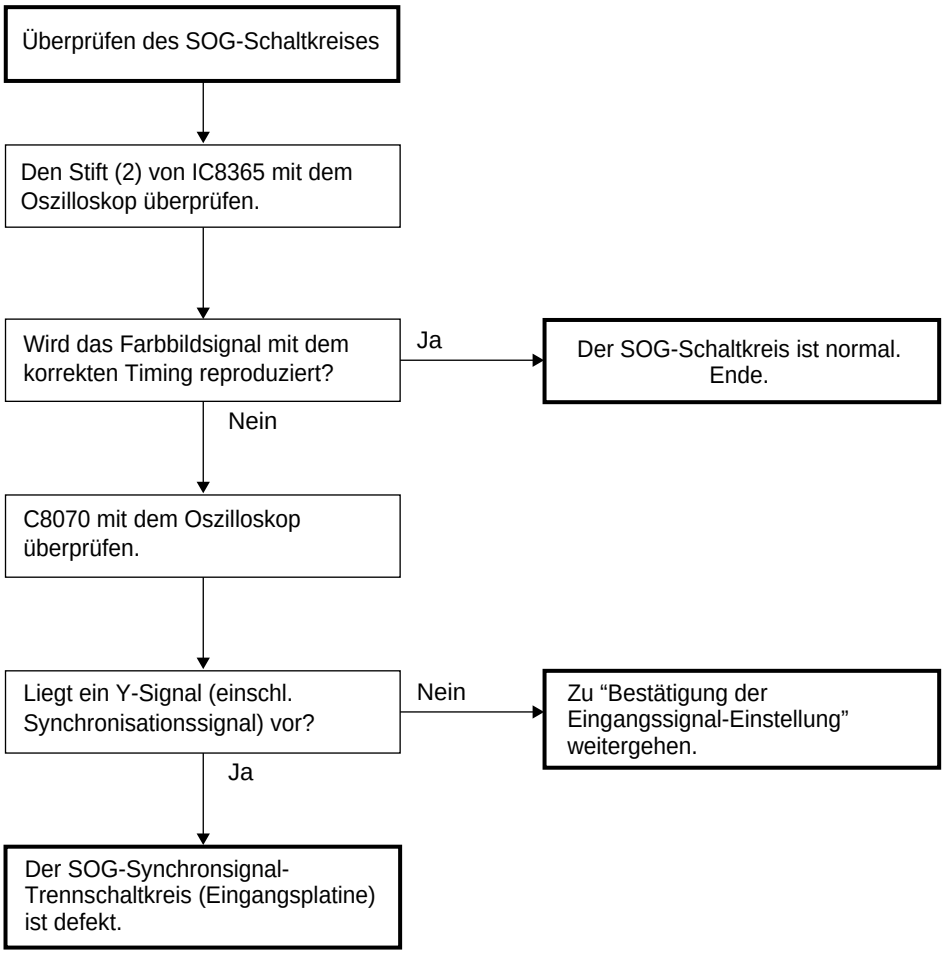
FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)


Überprüfen von GA4 und seine zugehörigen Komponenten
R, G und B einzeln auf dem Mustermenü anwählen.
Wird das Bild korrekt in R-, G- und B-Signalen ausgegeben?
Ja
Das Überprüfen von GA4 und der zugehörigen Komponenten ist beendet.
Nein
Die Stifte (54), (66) und (78) von SC8001 mit dem Oszilloskop messen. Diese Signale entsprechen MSB von B/G/R.
Stimmen die angewählten Signale im Mustermenü mit den durch das Oszilloskop gemessenen Signalen überein?
Ja
Die Ausgangs-Platine ist defekt.
Nein
Wird das Taktsignal dem Stift (40) und (42) von SC8001 zugeführt?
Nein
Liegt ein Taktsignal von 37,5 MHz am TL8114 an?
Ja
Der IC8029 ist defekt.
Nein
Liegt ein Taktsignal von 37,5 MHz am FL8110 an?
Nein
Der X8005 ist defekt.
Ja
Der IC8025 ist defekt.
Ja
TL8106, TL8107, TL8108, TL8109, TL8110 und TL8111 mit dem Oszilloskop überprüfen.
Stimmen die angewählten Signale im Mustermenü mit den durch das Oszilloskop gemessenen Signalen überein?
Nein
Der IC8025 ist defekt.
Ja
Der IC8029 ist defekt.

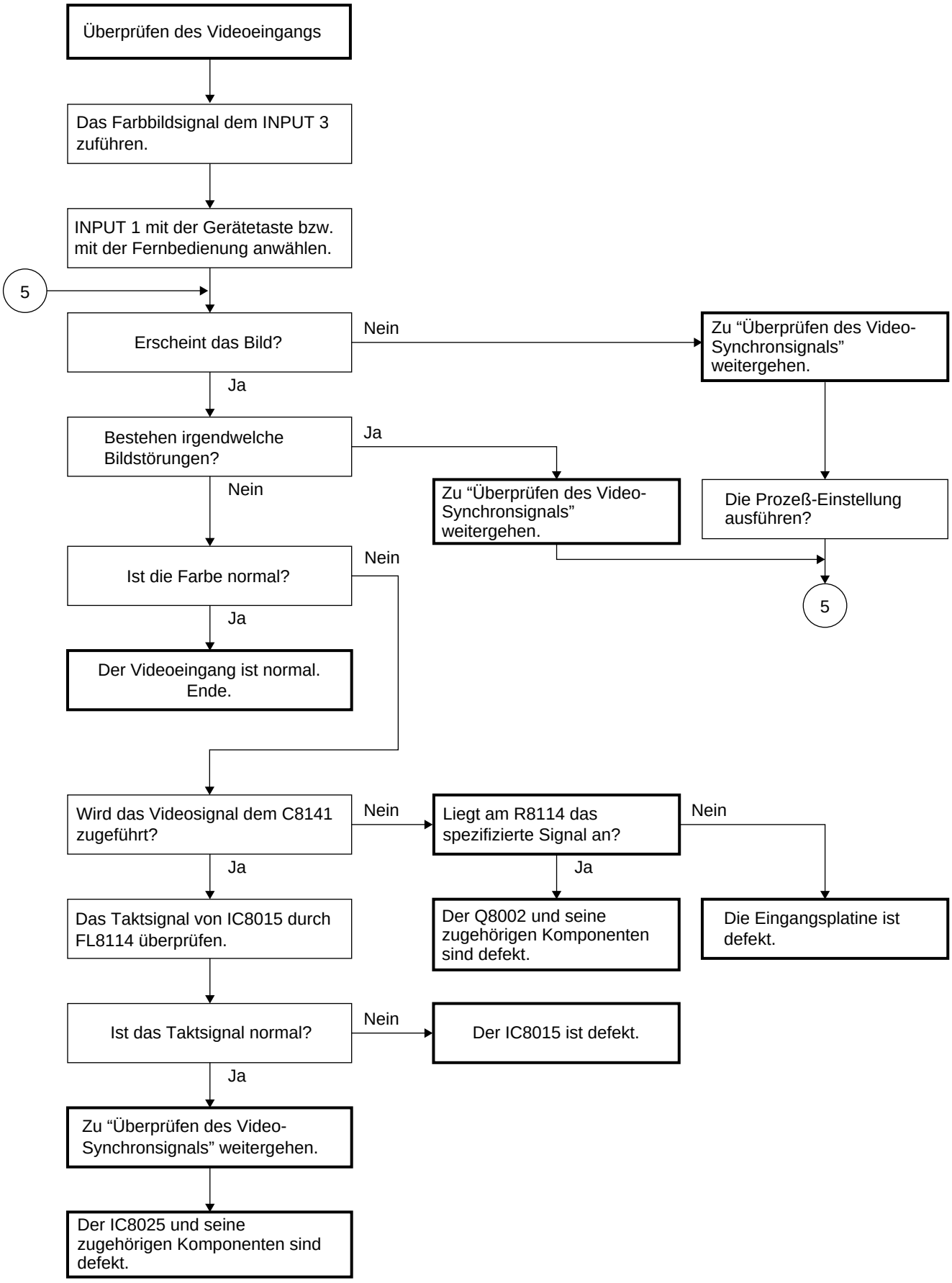
FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)



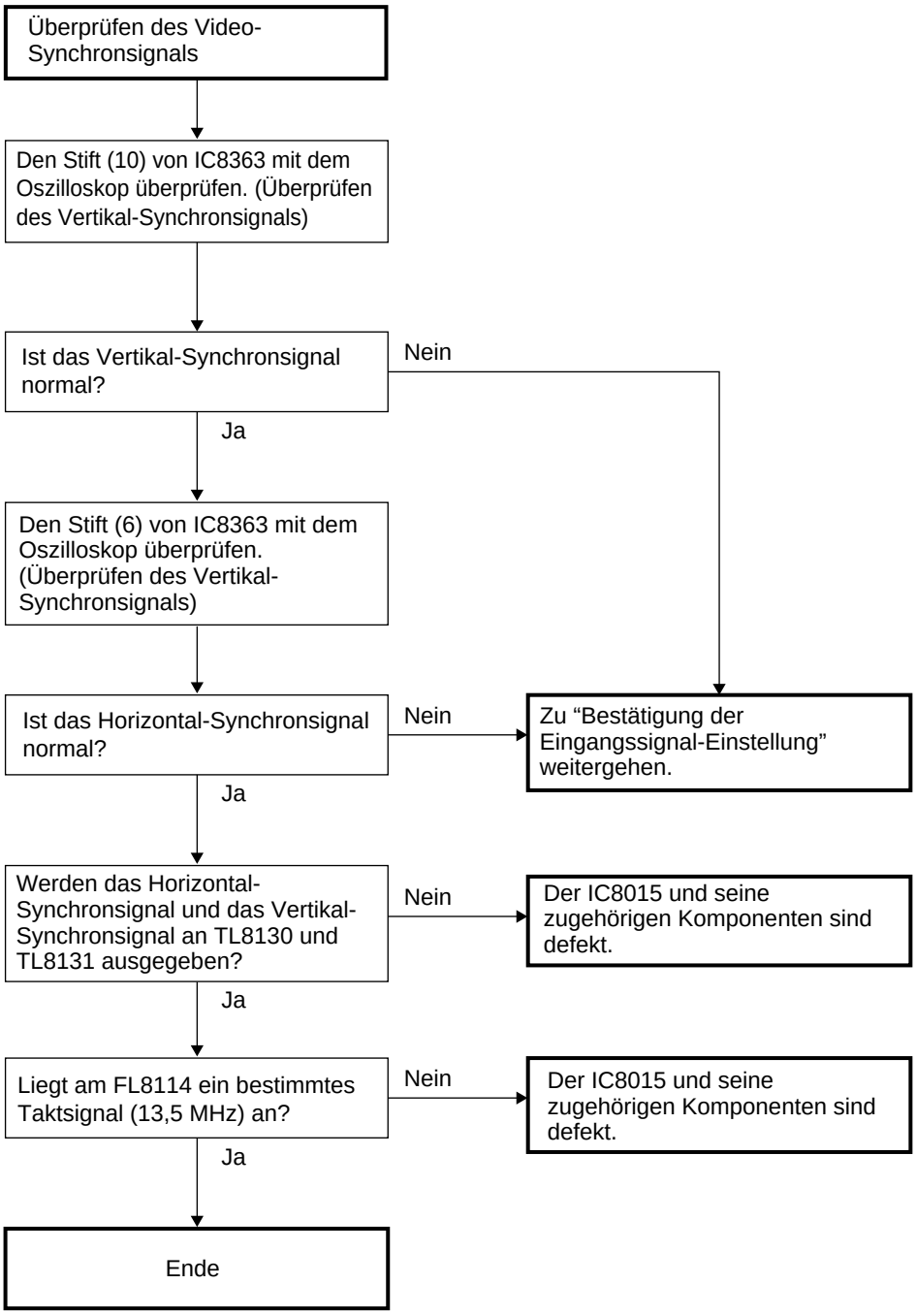
FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)


Überprüfen des SOG-Schaltkreises
Den Stift (2) von IC8365 mit dem Oszilloskop überprüfen.
Wird das Farbbildsignal mit dem korrekten Timing reproduziert?
Ja
Der SOG-Schaltkreis ist normal. Ende.
Nein
C8070 mit dem Oszilloskop überprüfen.
Liegt ein Y-Signal (einschl. Synchronisationssignal) vor?
Nein
Zu “Bestätigung der Eingangssignal-Einstellung” weitergehen.
Ja
Der SOG-Synchronsignal-Trennschaltkreis (Eingangsplatine) ist defekt.

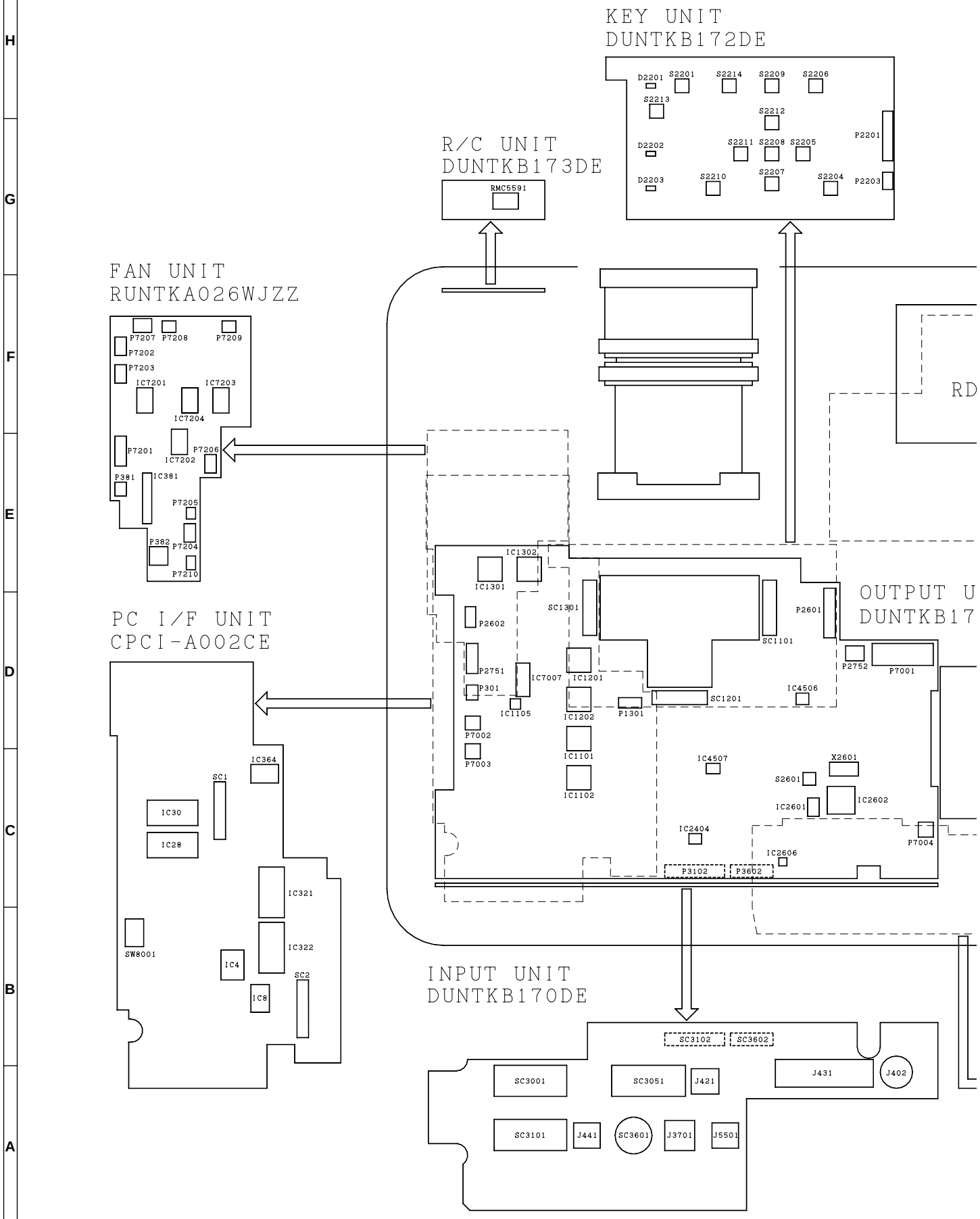
FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)

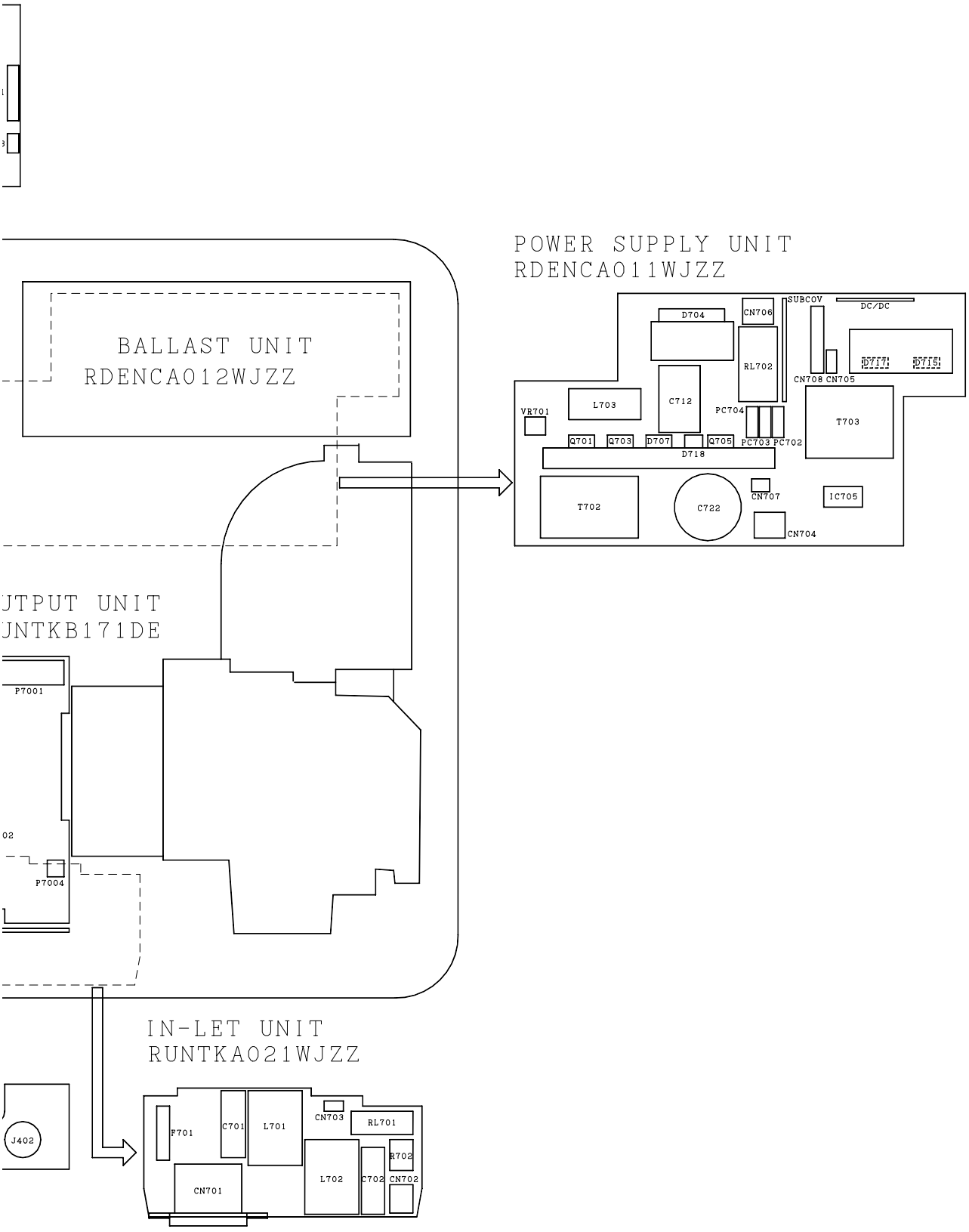


FEHLERSUCHTABELLE für PC I/F EINHEIT (Fortsetzung)


Überprüfen des Video-Synchronsignals
Den Stift (10) von IC8363 mit dem Oszilloskop überprüfen. (Überprüfen des Vertikal-Synchronsignals)
Ist das Vertikal-Synchronsignal normal?
Nein
Ja
Den Stift (6) von IC8363 mit dem Oszilloskop überprüfen. (Überprüfen des Vertikal-Synchronsignals)
Ist das Horizontal-Synchronsignal normal?
Nein
Zu “Bestätigung der Eingangssignal-Einstellung” weitergehen.
Ja
Werden das Horizontal-Synchronsignal und das Vertikal-Synchronsignal an TL8130 und TL8131 ausgegeben?
Nein
Der IC8015 und seine zugehörigen Komponenten sind defekt.
Ja
Liegt am FL8114 ein bestimmtes Taktsignal (13,5 MHz) an?
Nein
Der IC8015 und seine zugehörigen Komponenten sind defekt.
Ja
Ende

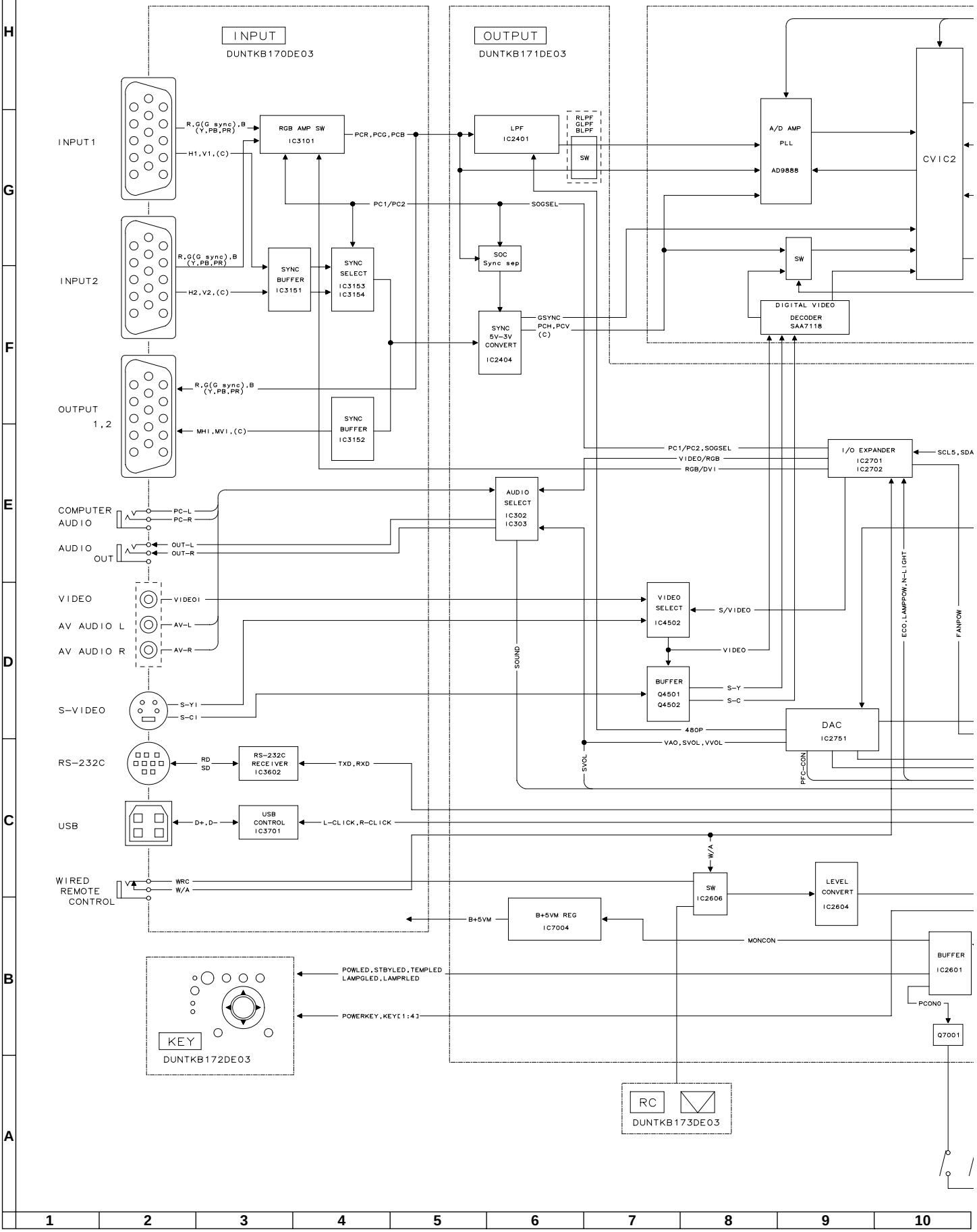
CHASSIS LAYOUT/CHASSIS-ANORDNUNG

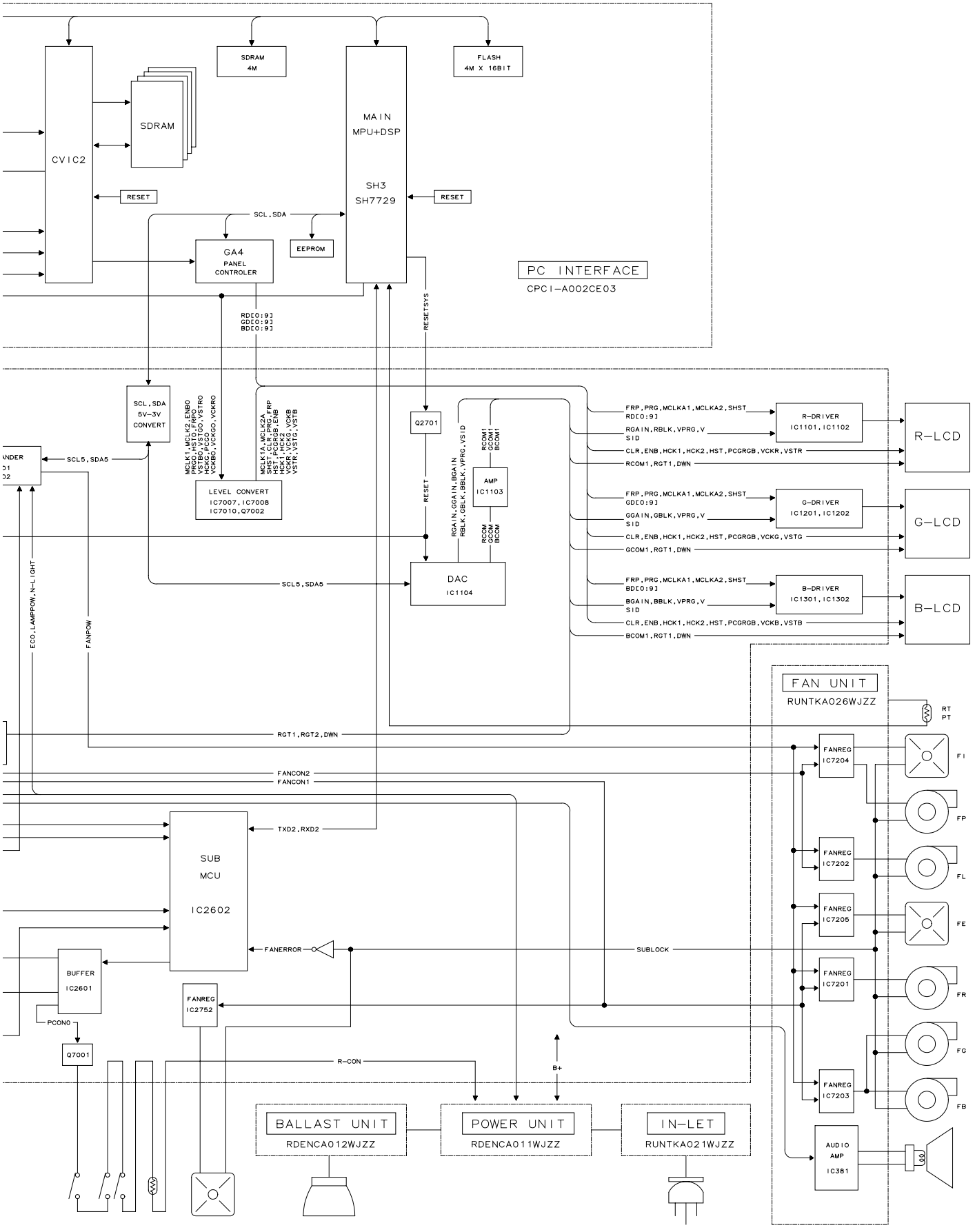




10	11	12	13	14	15	16	17	18	19

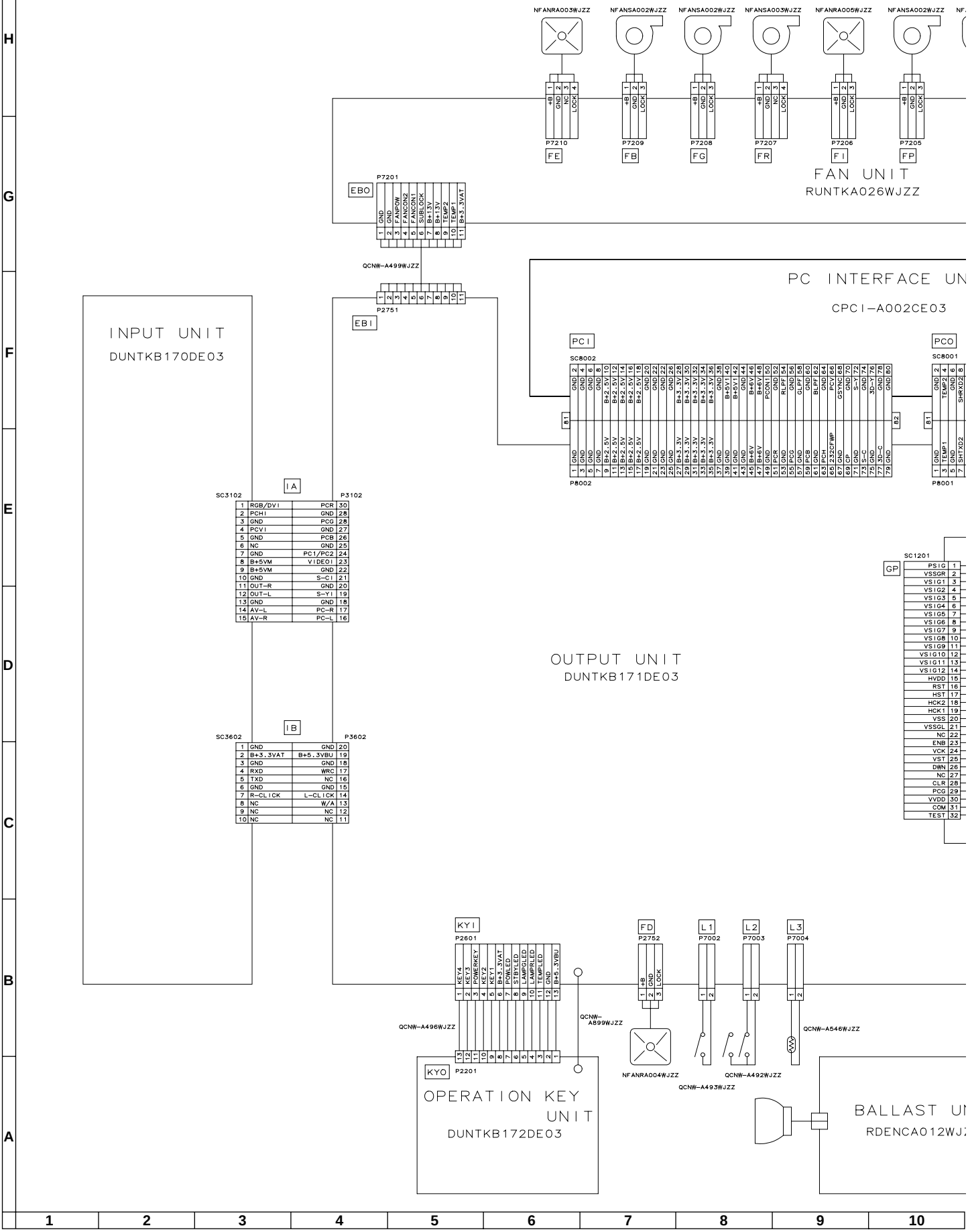
BLOCK DIAGRAM/BLOCKCHALTBILD

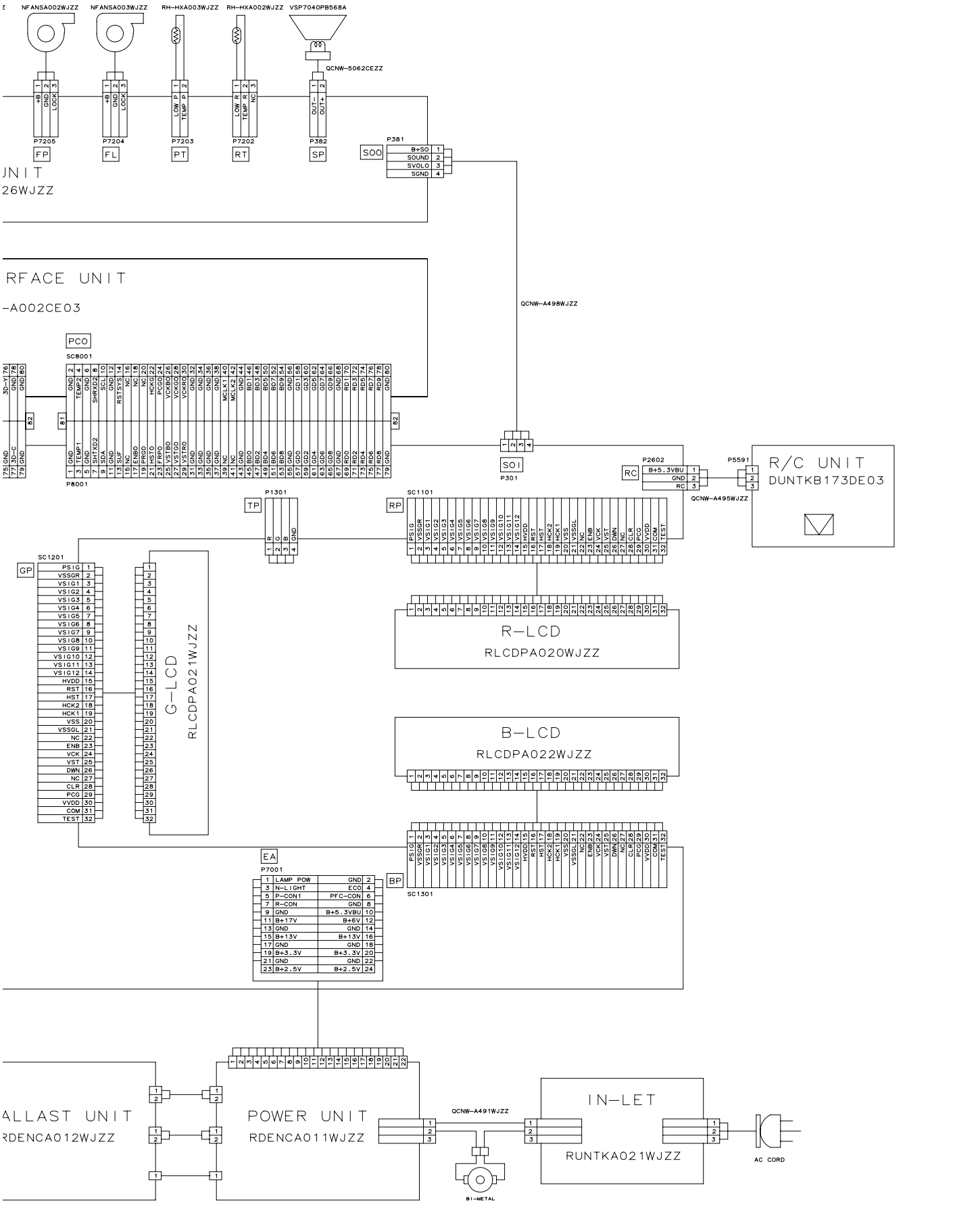




10	11	12	13	14	15	16	17	18	19

OVERALL WIRING DIAGRAM/GESAMTSCHALTPLAN





10	11	12	13	14	15	16	17	18	19

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 230V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 230V. Signals are fed by a colour bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid Ⓦ: Cement
   Ⓢ: Oxide Film Ⓣ: Special
   Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   (ML): Mylar (TA): Tantalum
   (PF): Polypro Film (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH " ⚠ ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 230V gemessen, Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 230V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

WIDERSTAND

1. Die Widerstandseinheit "Ω" wird weggelassen. (K=kΩ=1000 Ω, M=MΩ).
2. Alle Widerstände haben ± 5%, sofern nicht anders angegeben. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. Alle Widerstände haben 1/16W, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.
   Ⓒ: Fest Ⓦ: Zement
   Ⓢ: Oxidefilm Ⓣ: Spezial
   Ⓝ: Metallüberzug

KONDENSATOR

1. Die Kapazitätseinheit ist μF, sofern nicht anders angegeben. (P=pF=μμF).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.
   (ML): Mylar (TA): Tantal
   (PF): Polyprofilm (ST): Styrol

ACHTUNG:
bei diesem Schaltplan handelt es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihrem bestehen.

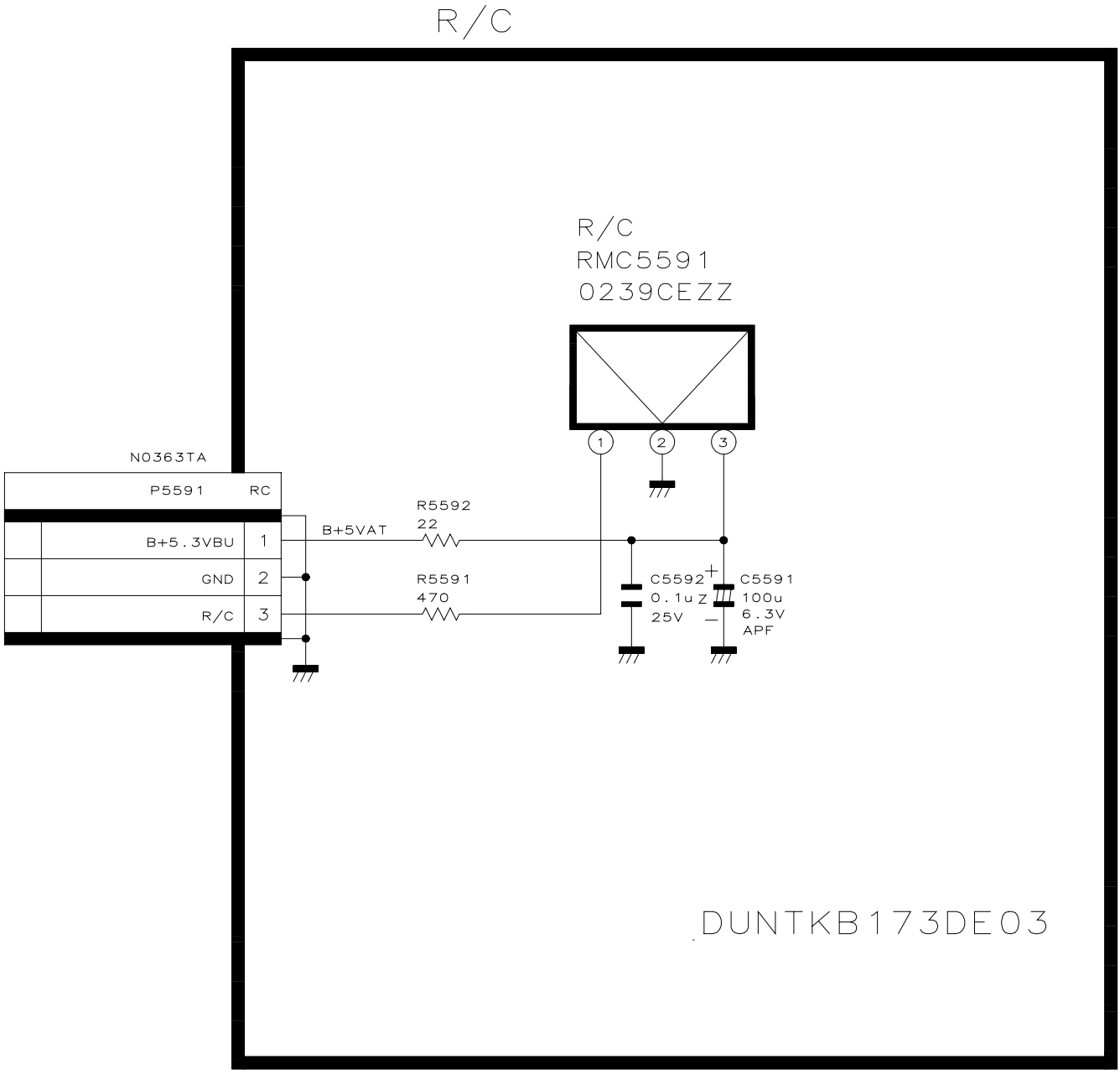
SICHERHEITSANMERKUNGEN:

1. VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.
2. DIE WARMEABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.

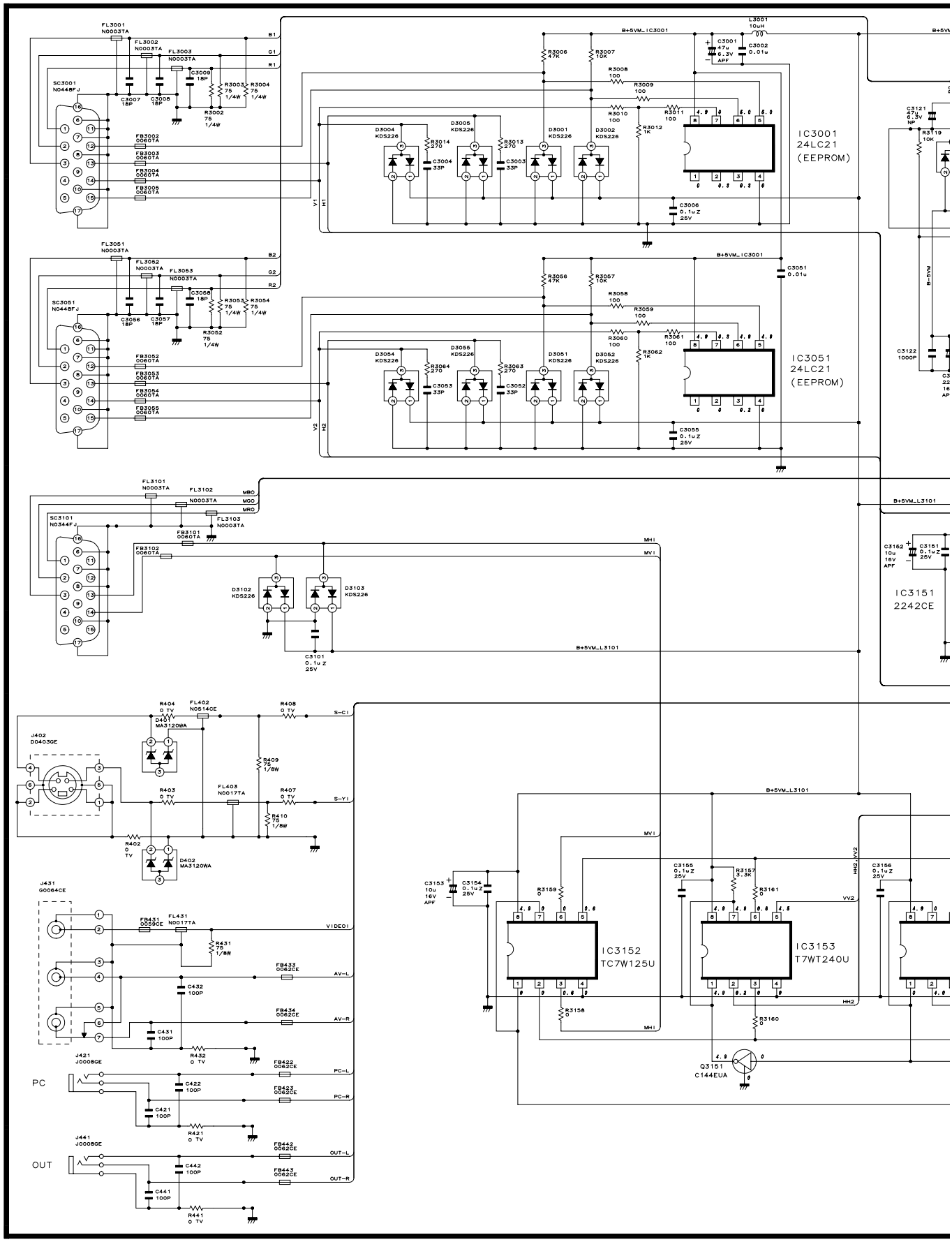
WICHTIGE SICHERHEITSANMERKUNGEN:

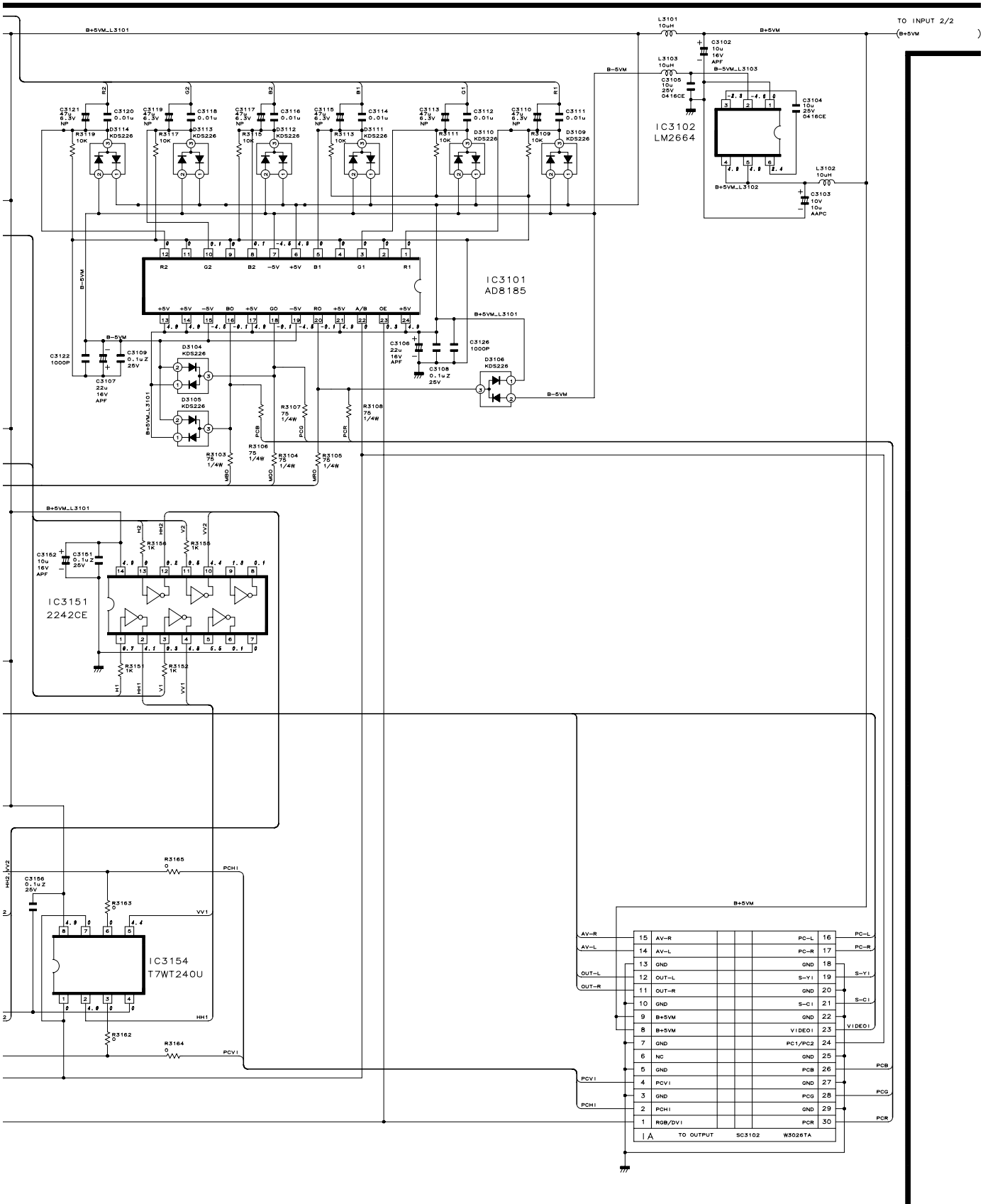
MIT "⚠ ( )BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT . BEIM WECHDIESER TEILE SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.

■ R/C RECEIVER UNIT / FERNBEDIENUNGS-EINHEIT

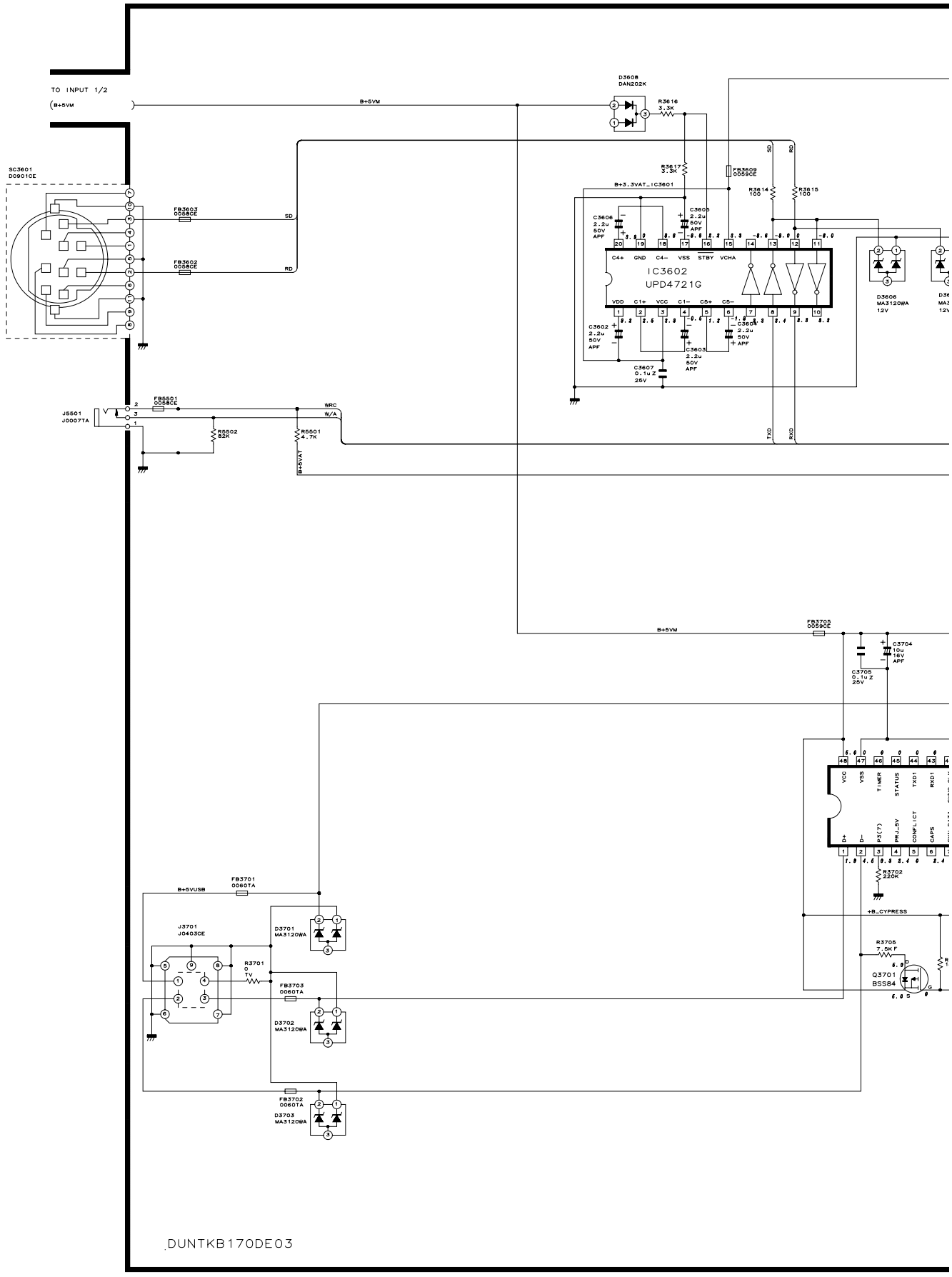


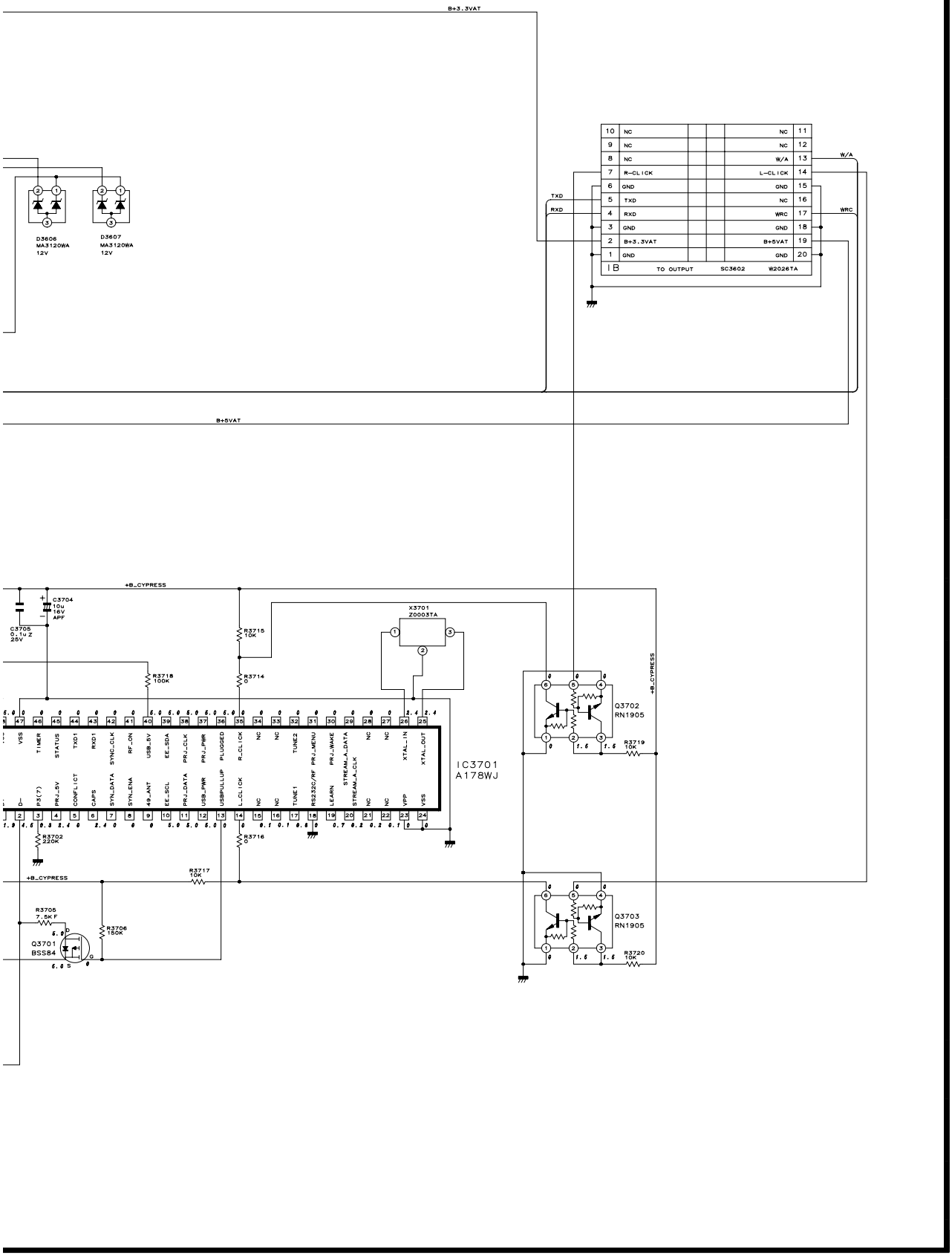
■ INPUT UNIT-1/2 / EINGANGS EINHEIT-1/2




IC3101
AD8185
IC3102
LM2664
IC3151
2242CE
IC3154
T7WT240U
TO INPUT 2/2
B+5VM_L3101
B+5VM_L3102
B+5VM_L3103
B+5VM
B-5VM
DUNTKB170DE03

■ INPUT UNIT-2/2 / EINGANGS EINHEIT-2/2

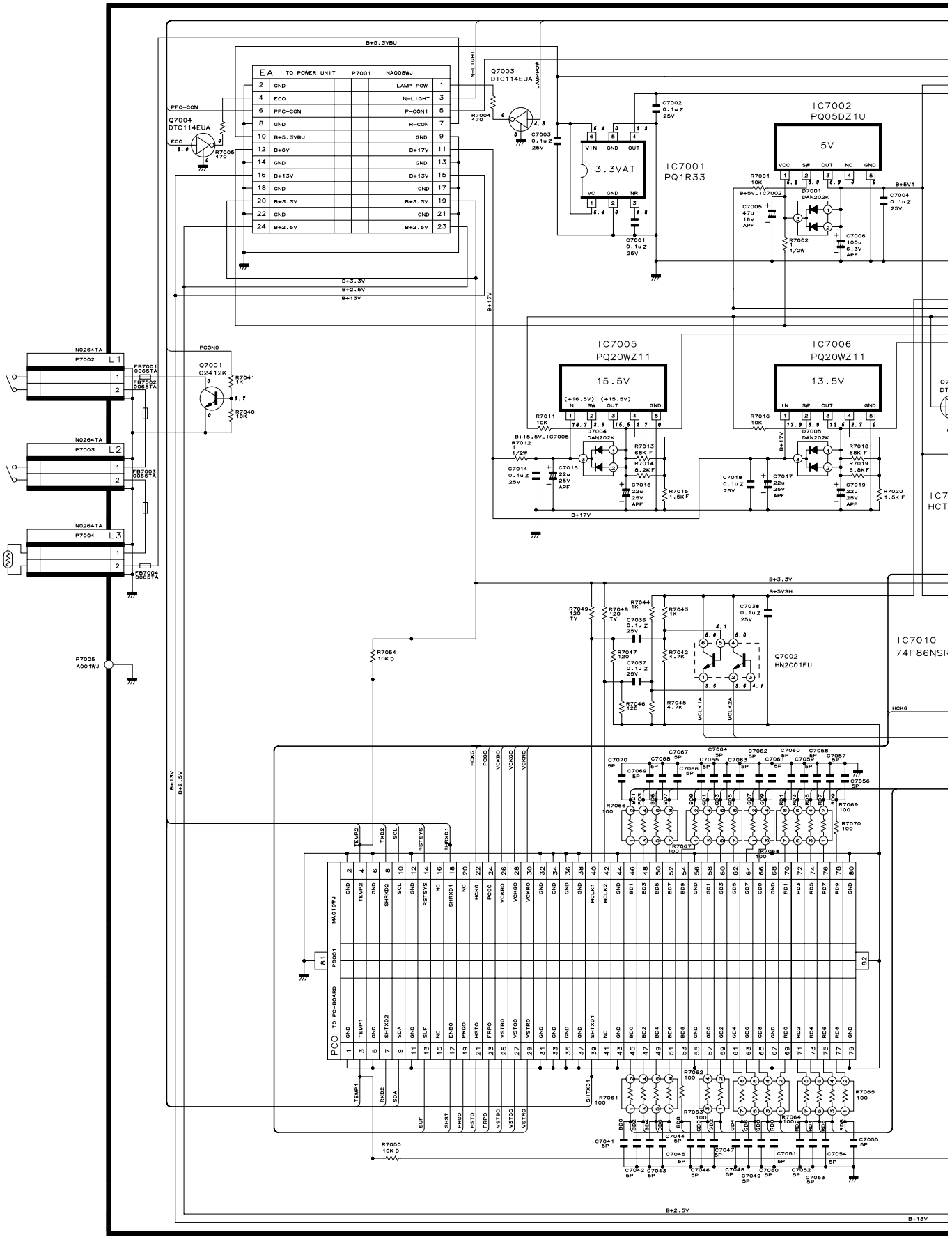


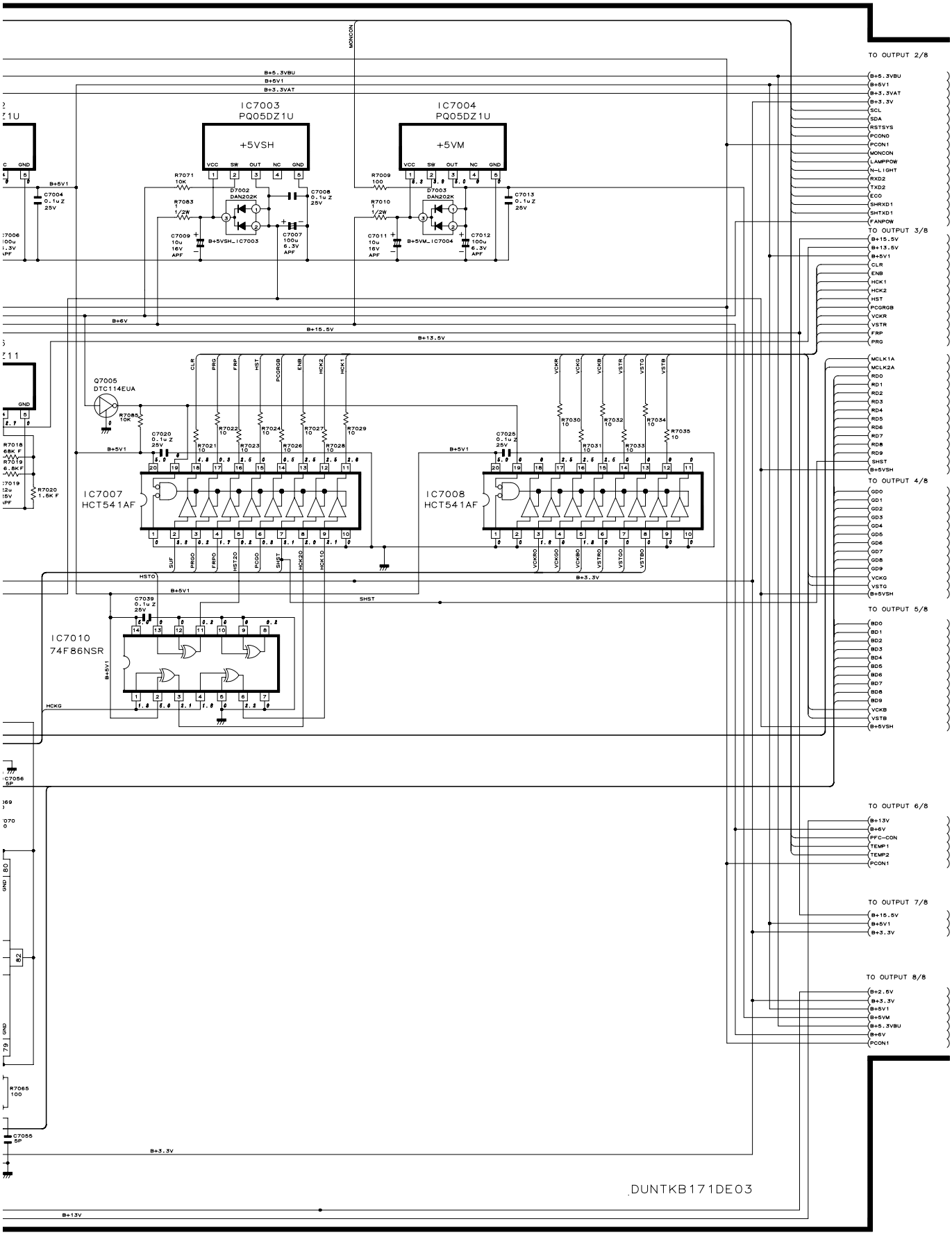


10	11	12	13	14	15	16	17	18	19

■ OUTPUT UNIT-1/8 / AUSGANGSEINHEIT-1/8

OUTPUT (1/8)

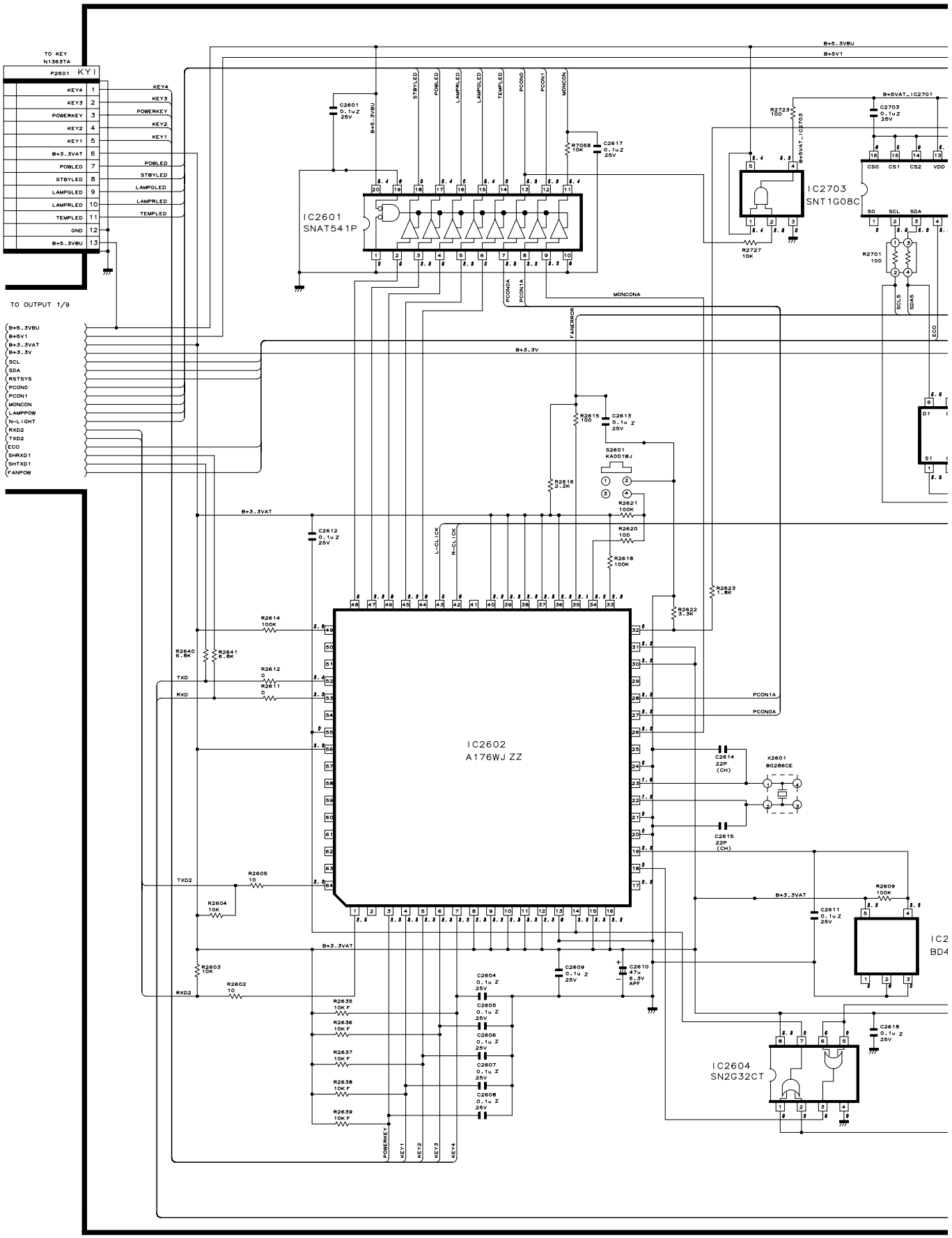


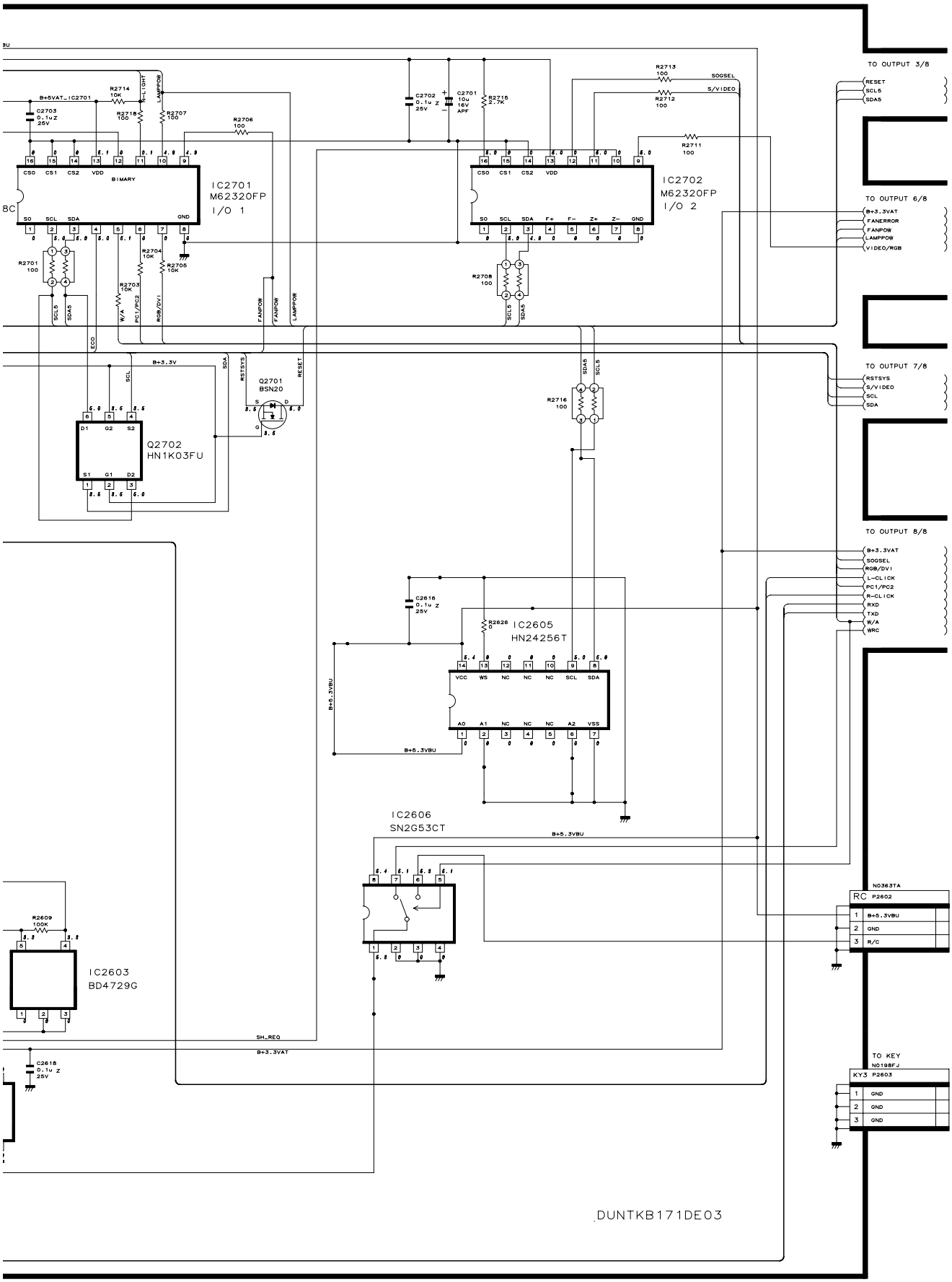


10	11	12	13	14	15	16	17	18	19

■ OUTPUT UNIT-2/8 / AUSGANGSEINHEIT-2/8

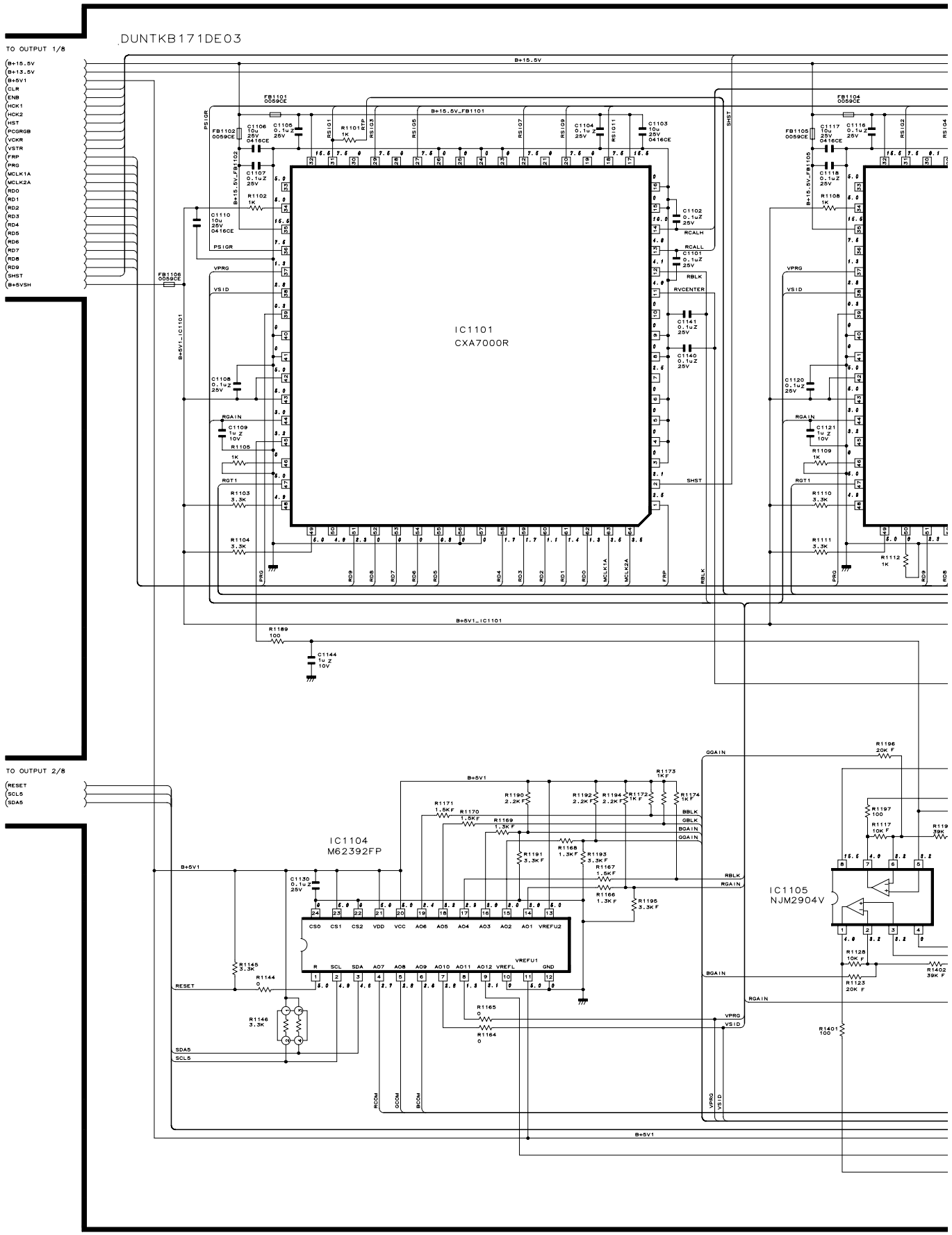
OUTPUT (2/8)

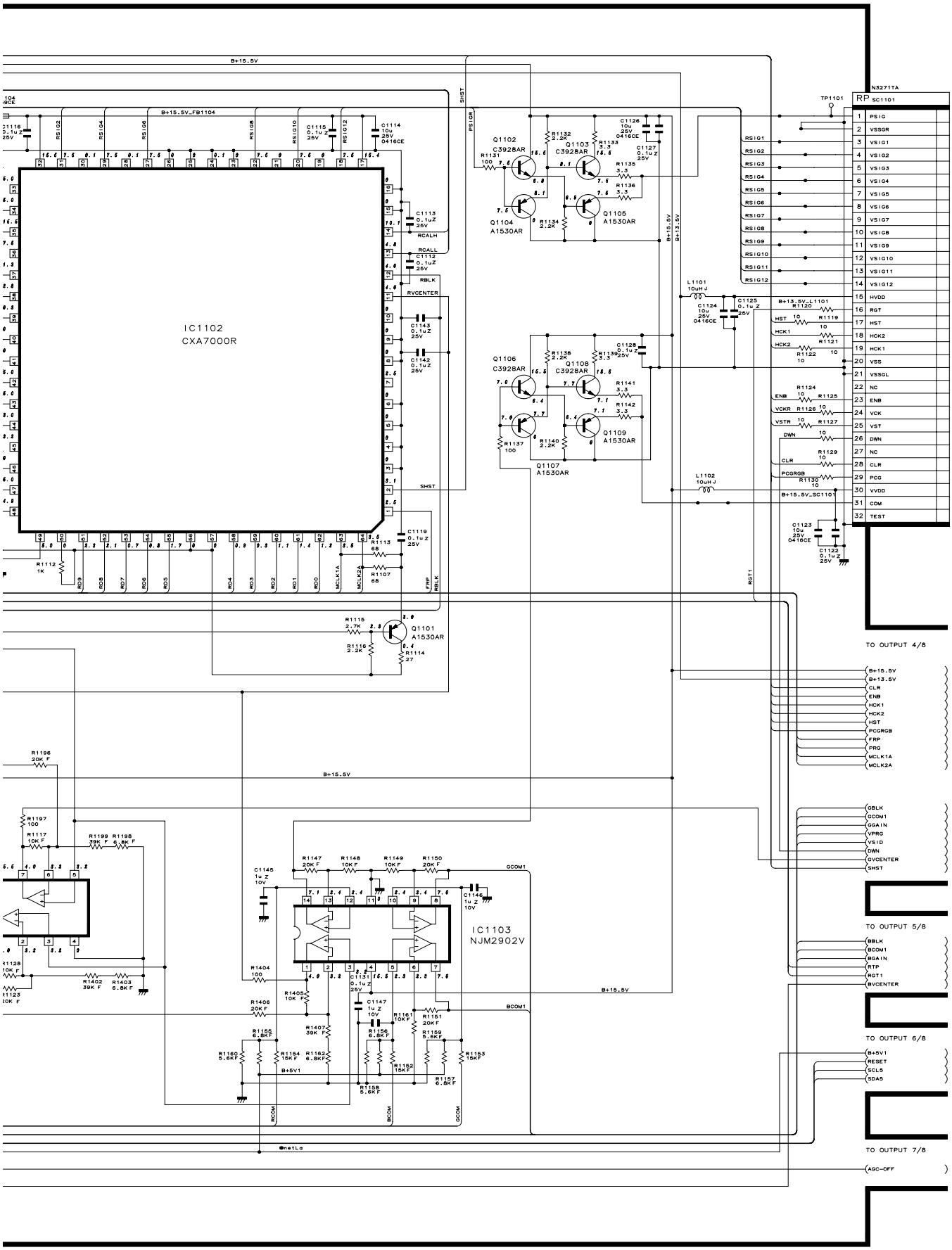



IC2701
M62320FP
I/O 1
IC2702
M62320FP
I/O 2
Q2701
BSN20
Q2702
HN1K03FU
IC2605
HN24256T
IC2606
SN2G53CT
IC2603
BD4729G
TO OUTPUT 3/8
TO OUTPUT 6/8
TO OUTPUT 7/8
TO OUTPUT 8/8
TO KEY
RC P2602
KY3 P2603
DUNTKB171DE03

■ OUTPUT UNIT-3/8 / AUSGANGSEINHEIT-3/8

OUTPUT (3/8)

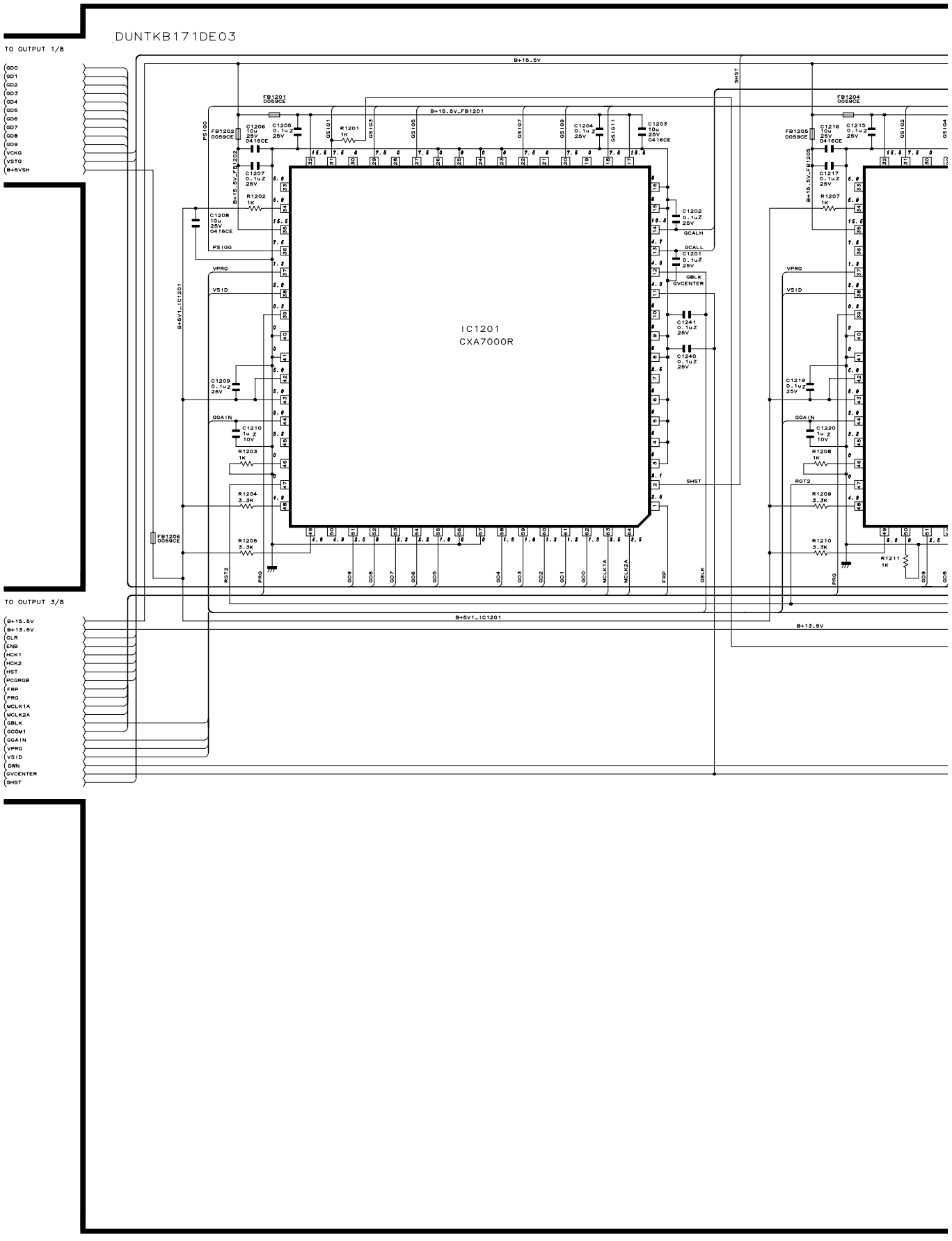


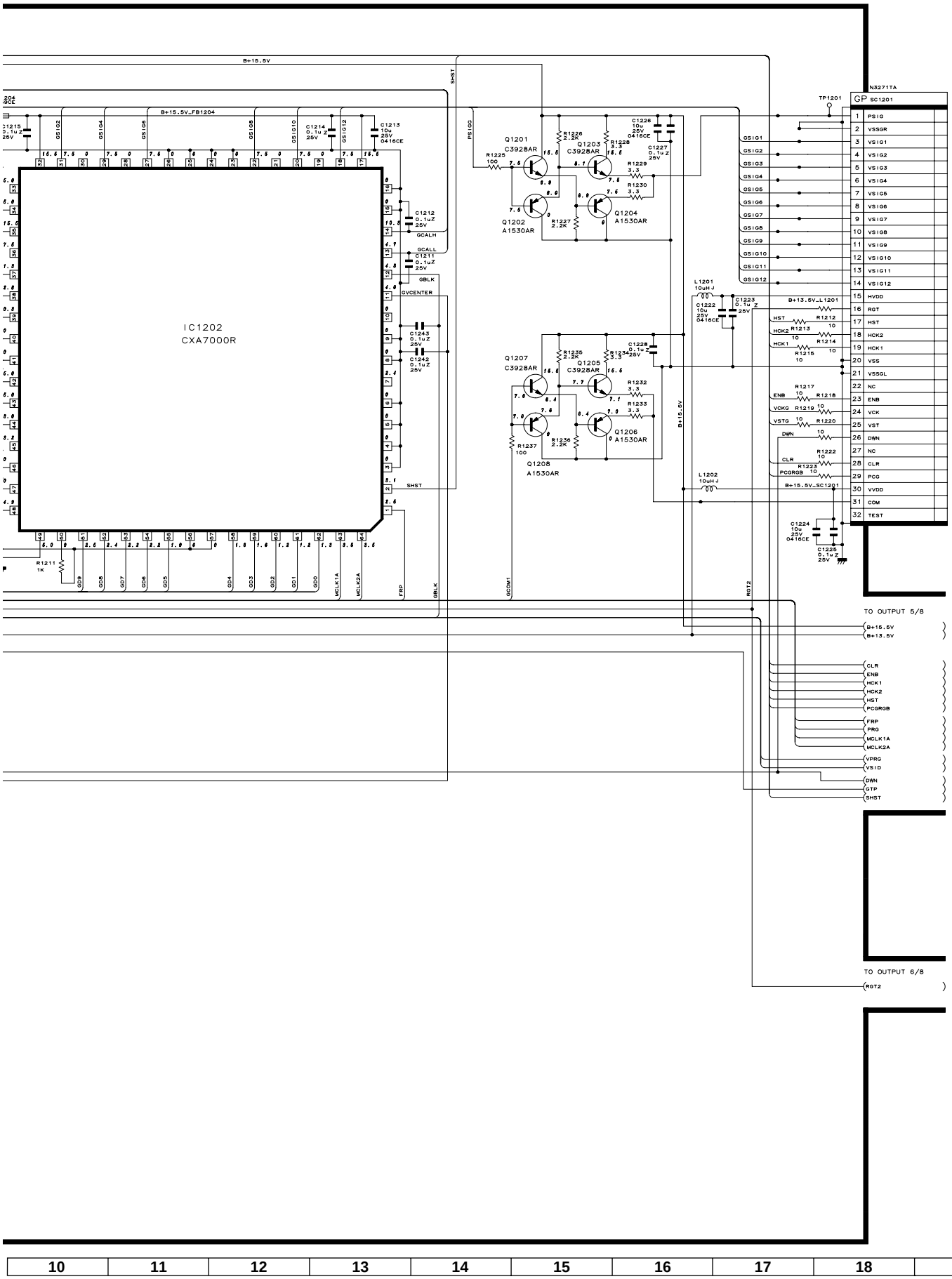


10	11	12	13	14	15	16	17	18	19

■ OUTPUT UNIT-4/8 / AUSGANGSEINHEIT-4/8

OUTPUT (4/8)

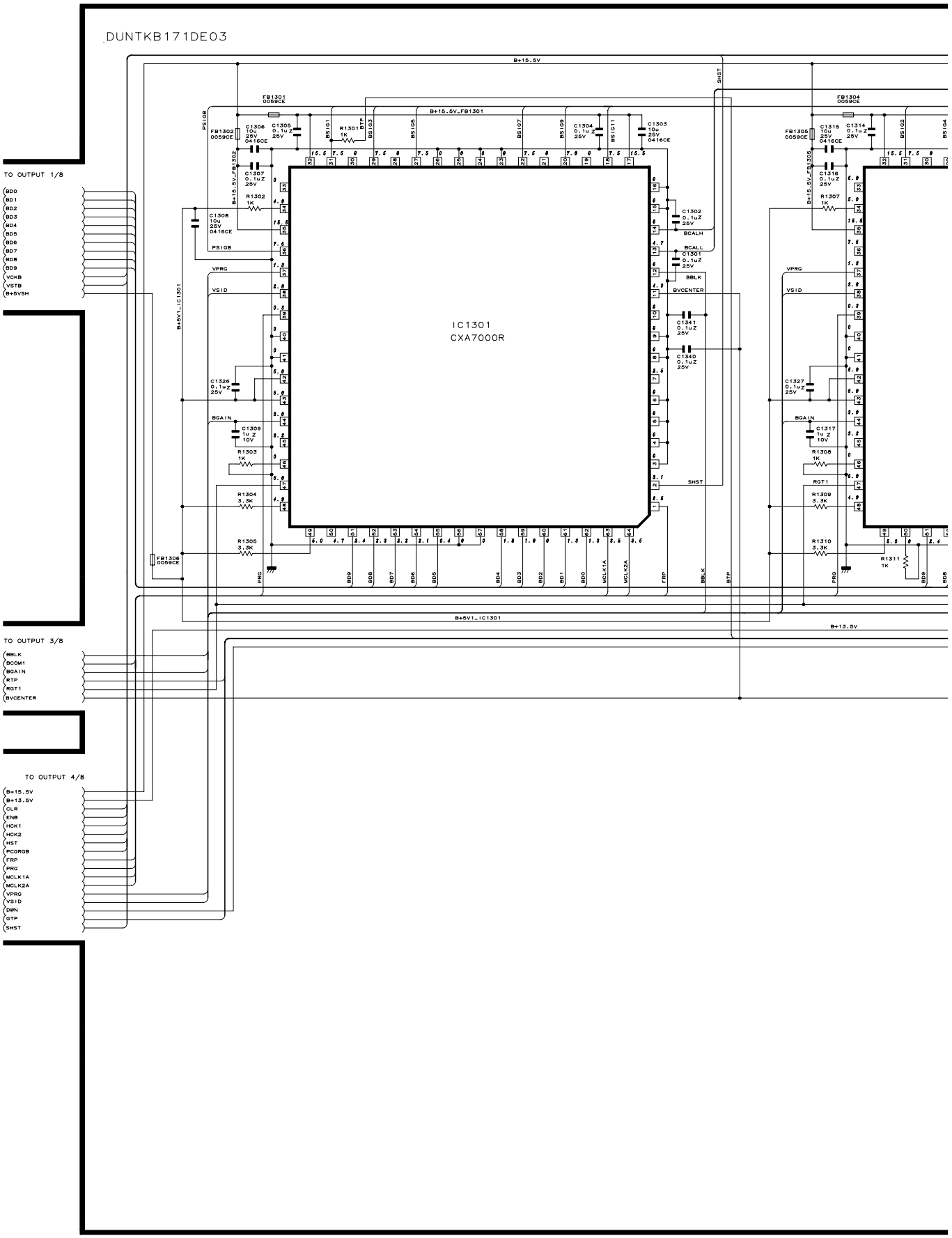


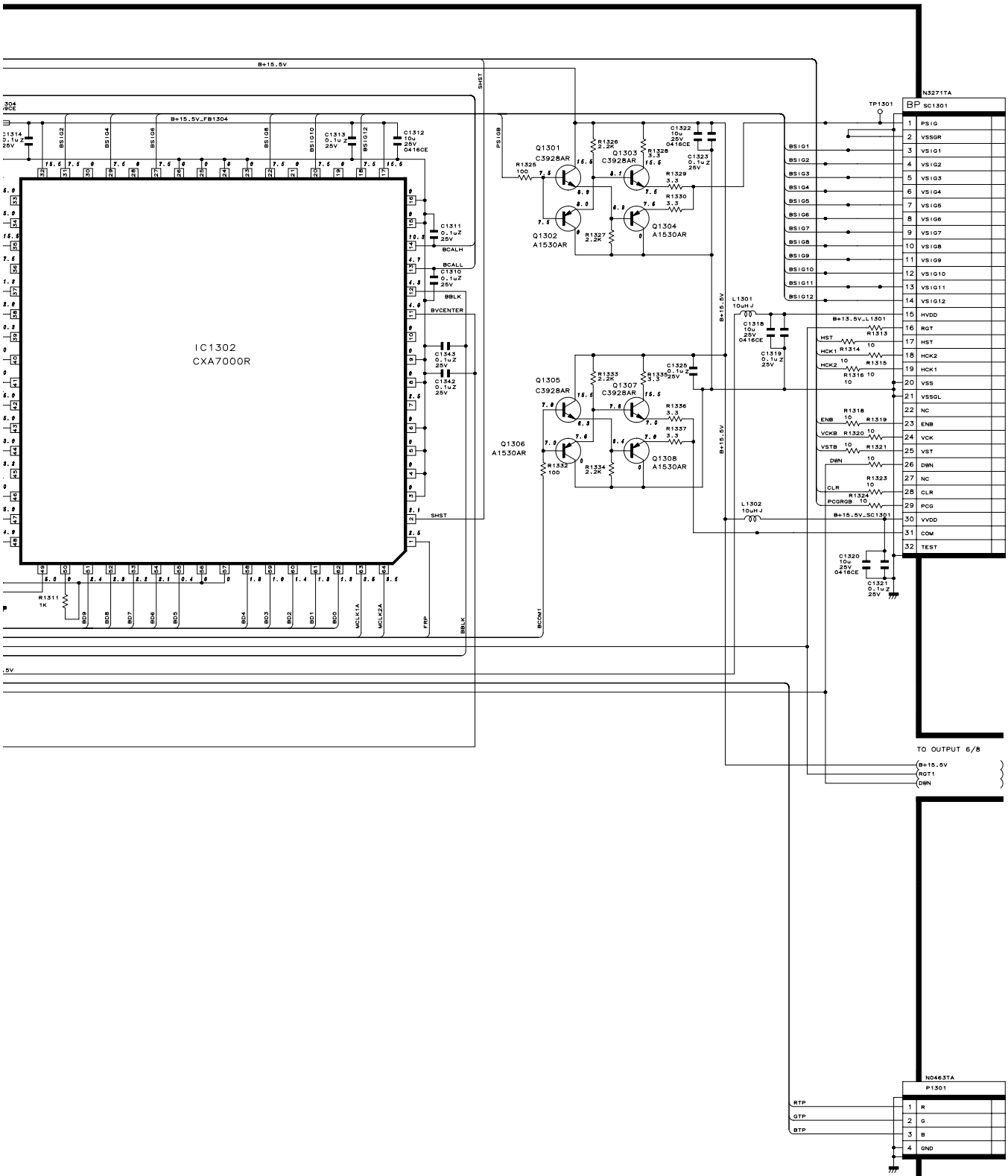


10	11	12	13	14	15	16	17	18	19

■ OUTPUT UNIT-5/8 / AUSGANGSEINHEIT-5/8

OUTPUT (5/8)

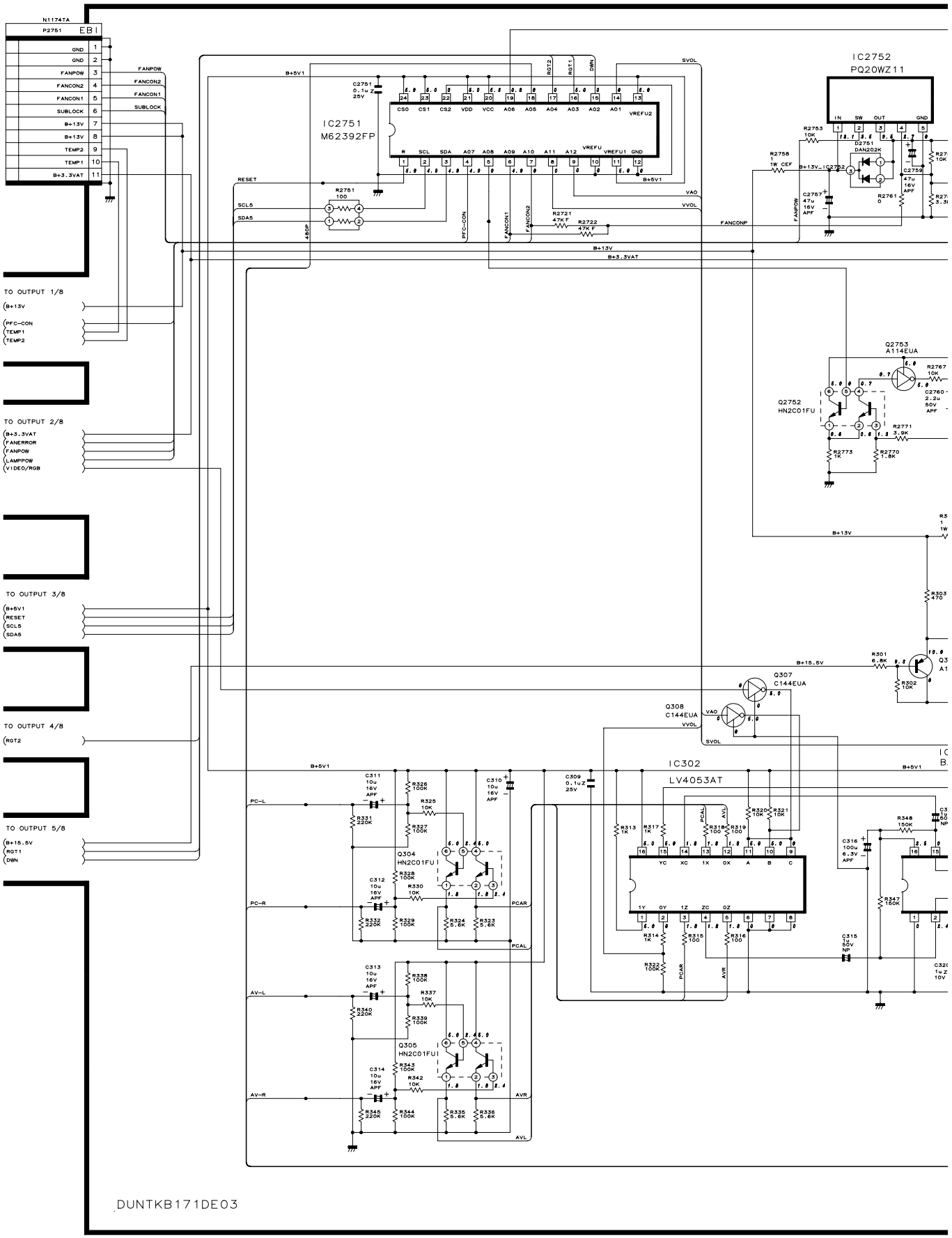




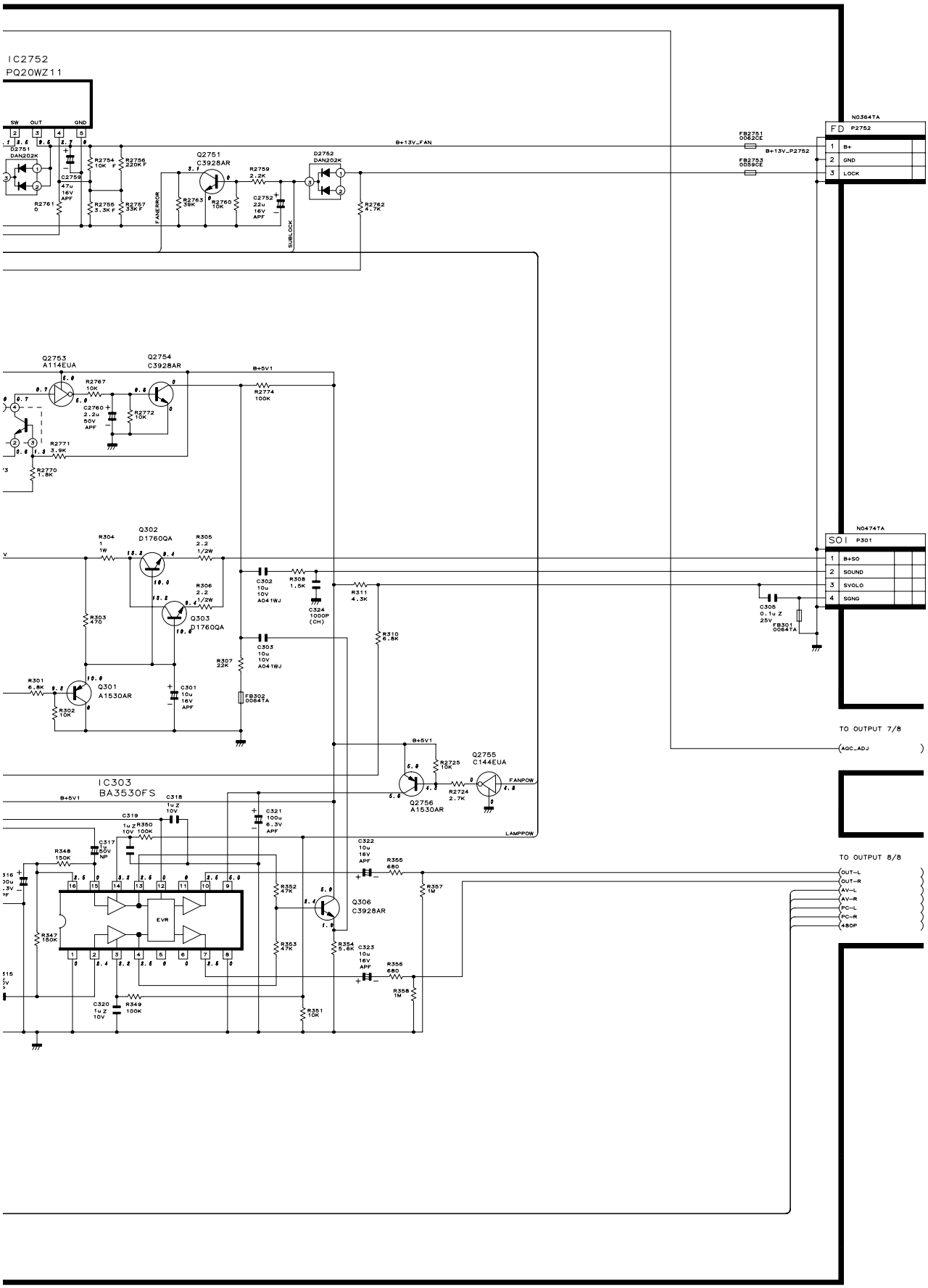
10	11	12	13	14	15	16	17	18	19

■ OUTPUT UNIT-6/8 / AUSGANGSEINHEIT-6/8

OUTPUT (6/8)

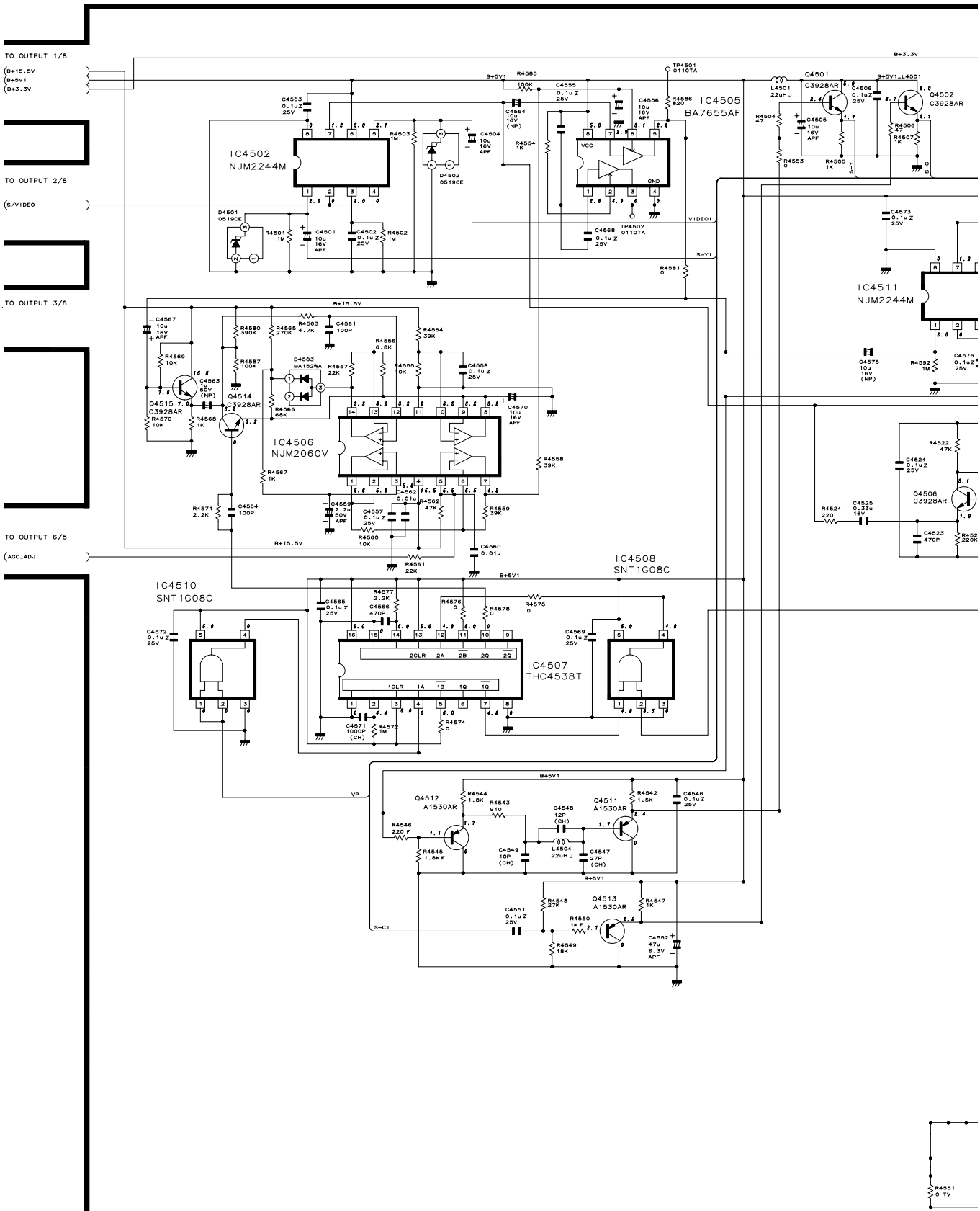


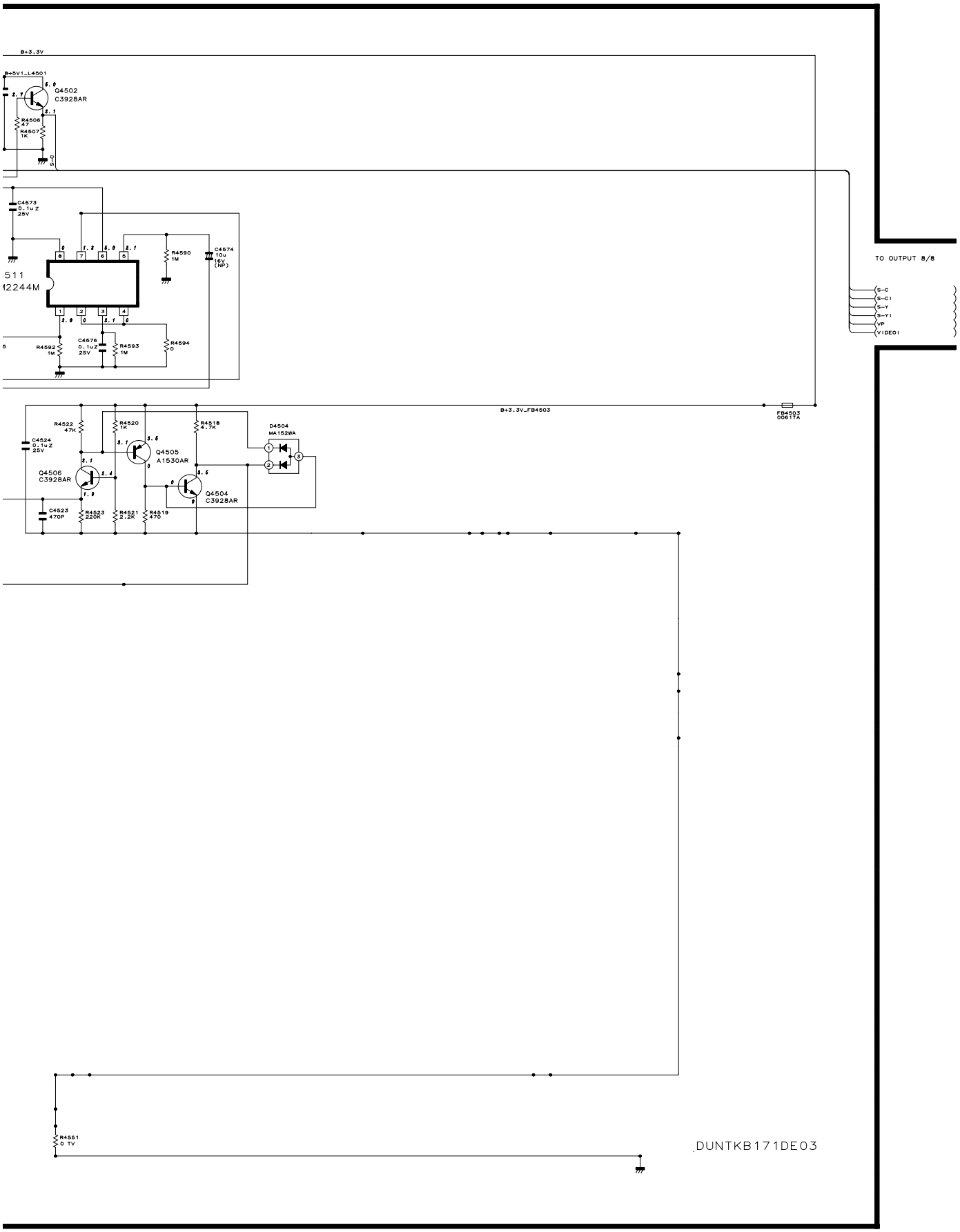
DUNTKB171DE03



10	11	12	13	14	15	16	17	18	19

■ OUTPUT UNIT-7/8 / AUSGANGSEINHEIT-7/8

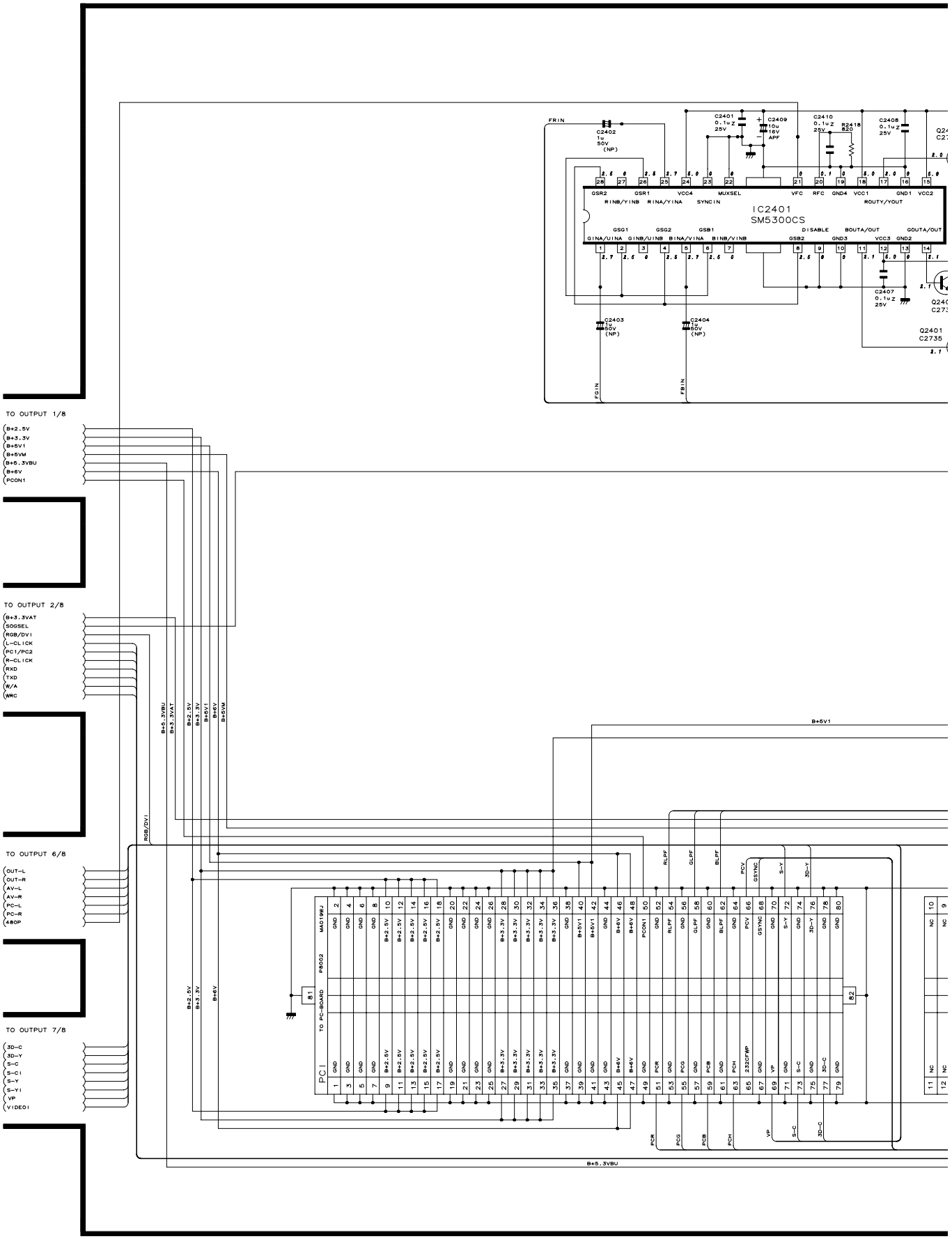


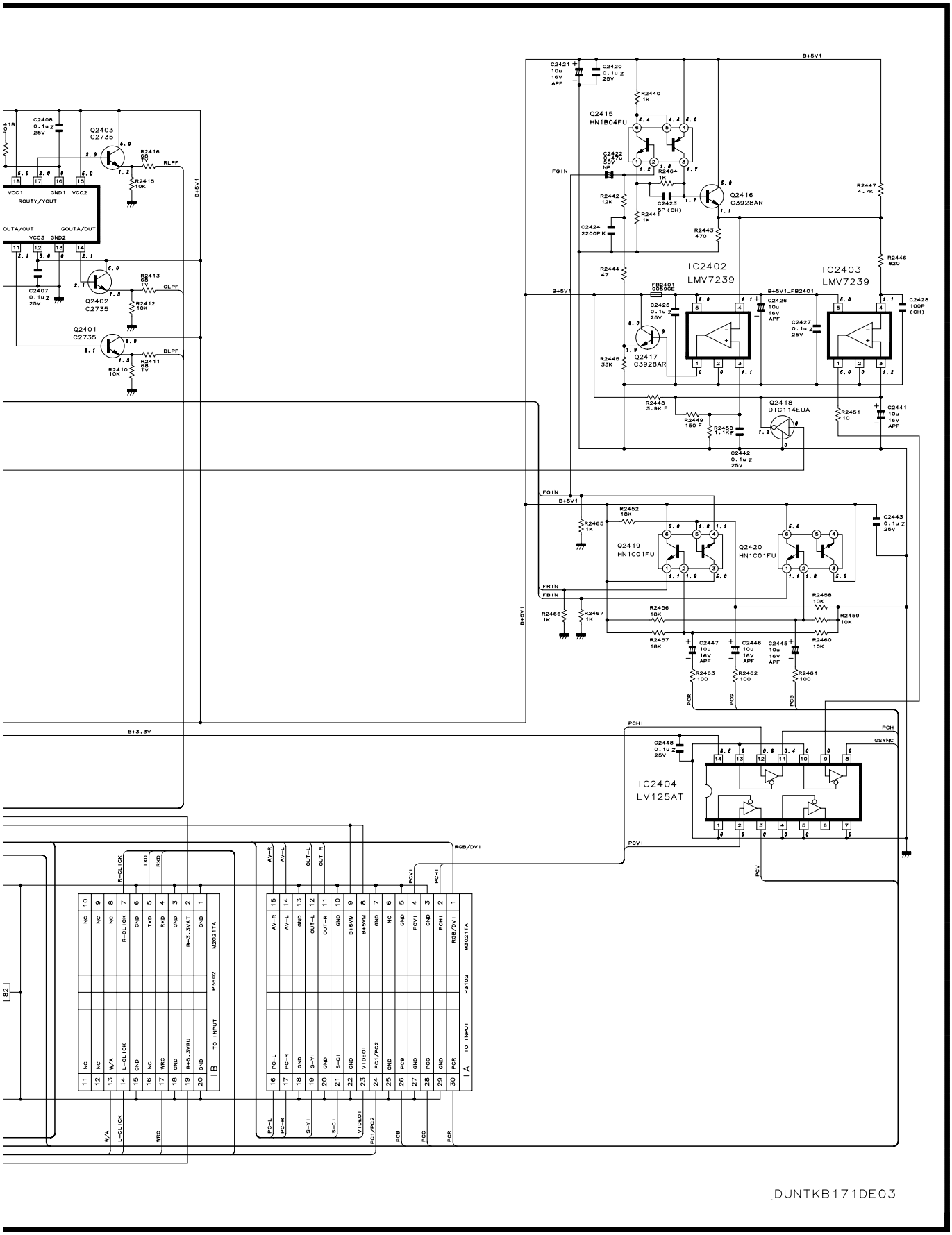


10	11	12	13	14	15	16	17	18	19

■ OUTPUT UNIT-8/8 / AUSGANGSEINHEIT-8/8

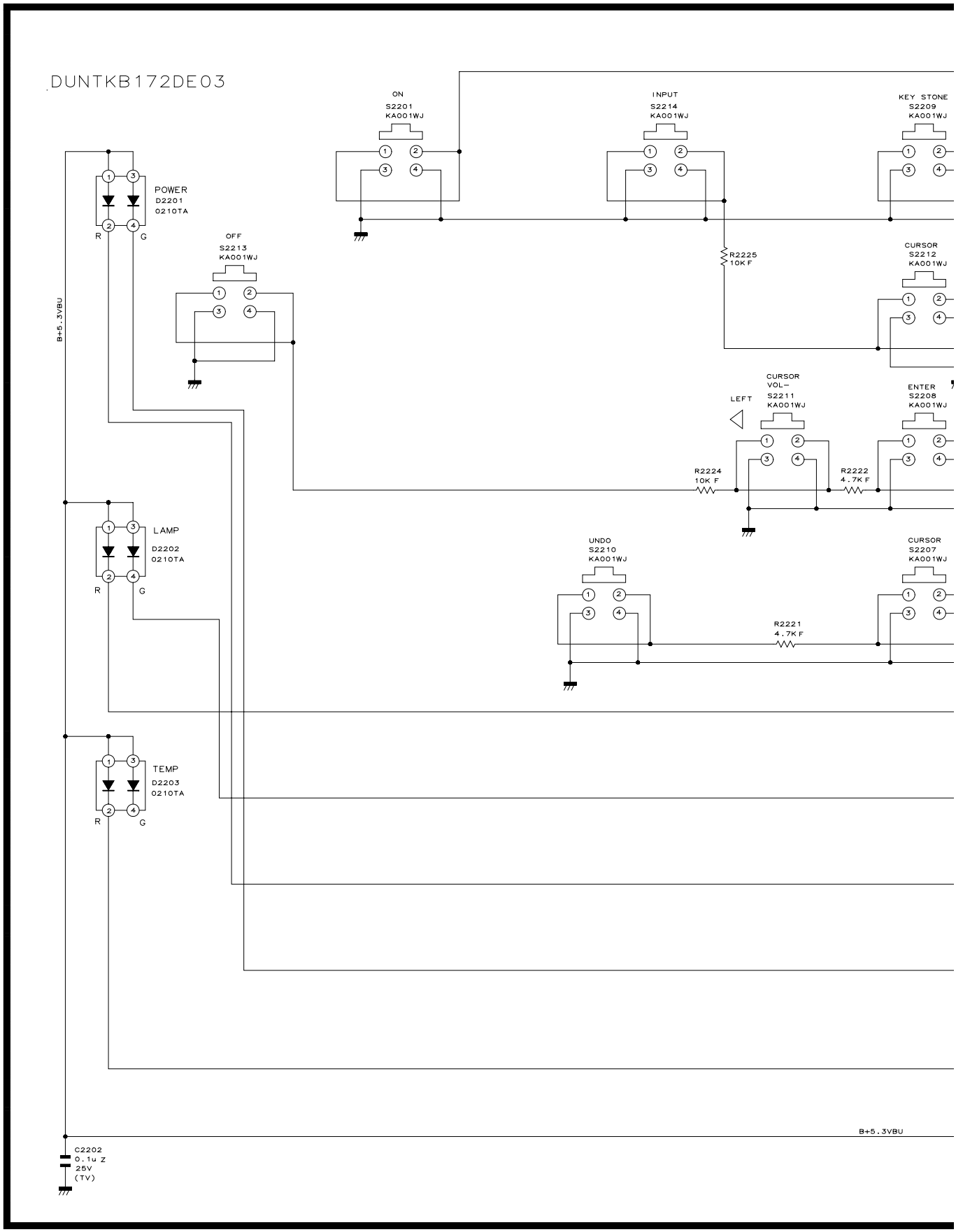
OUTPUT (8/8)

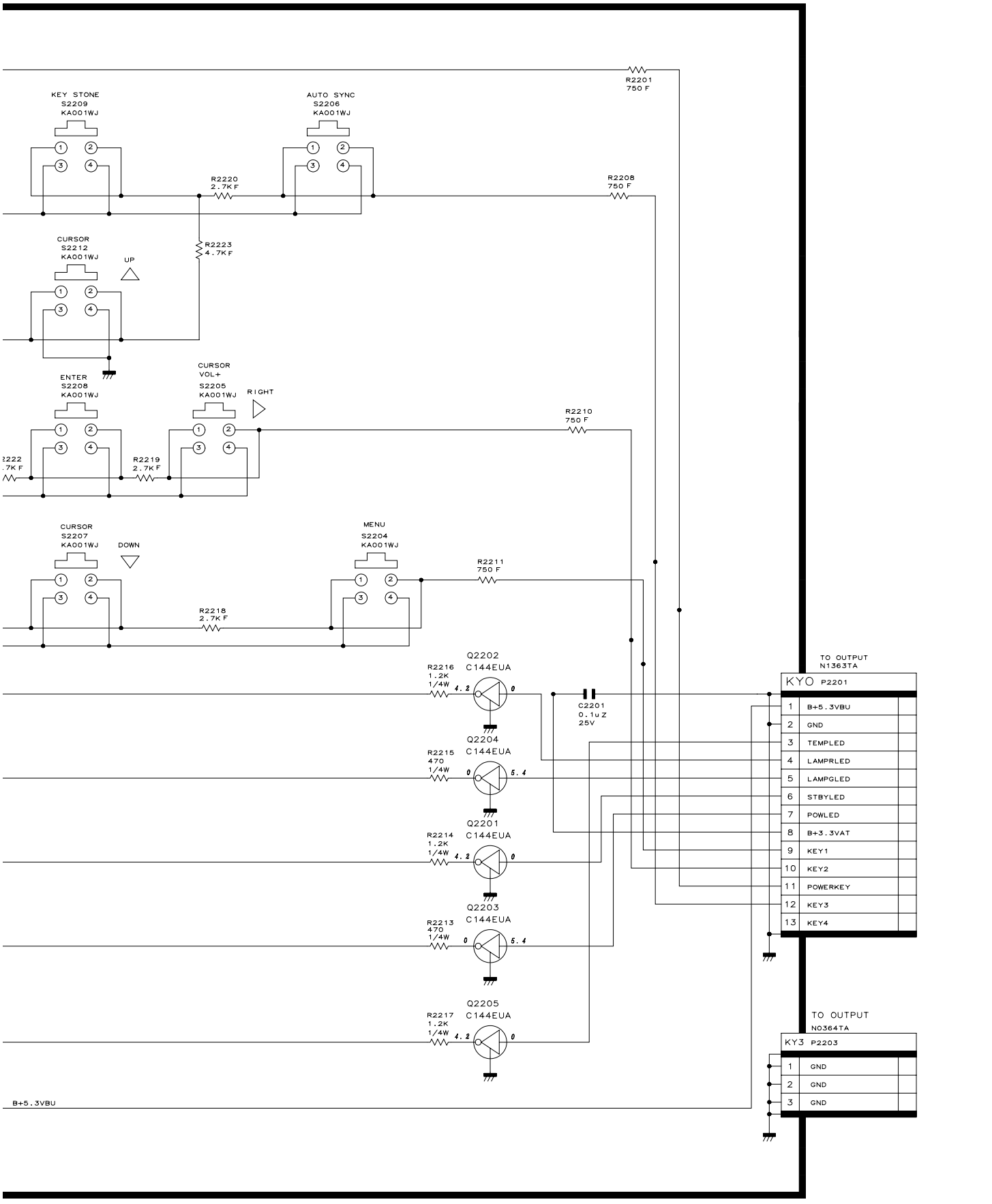




10	11	12	13	14	15	16	17	18	19

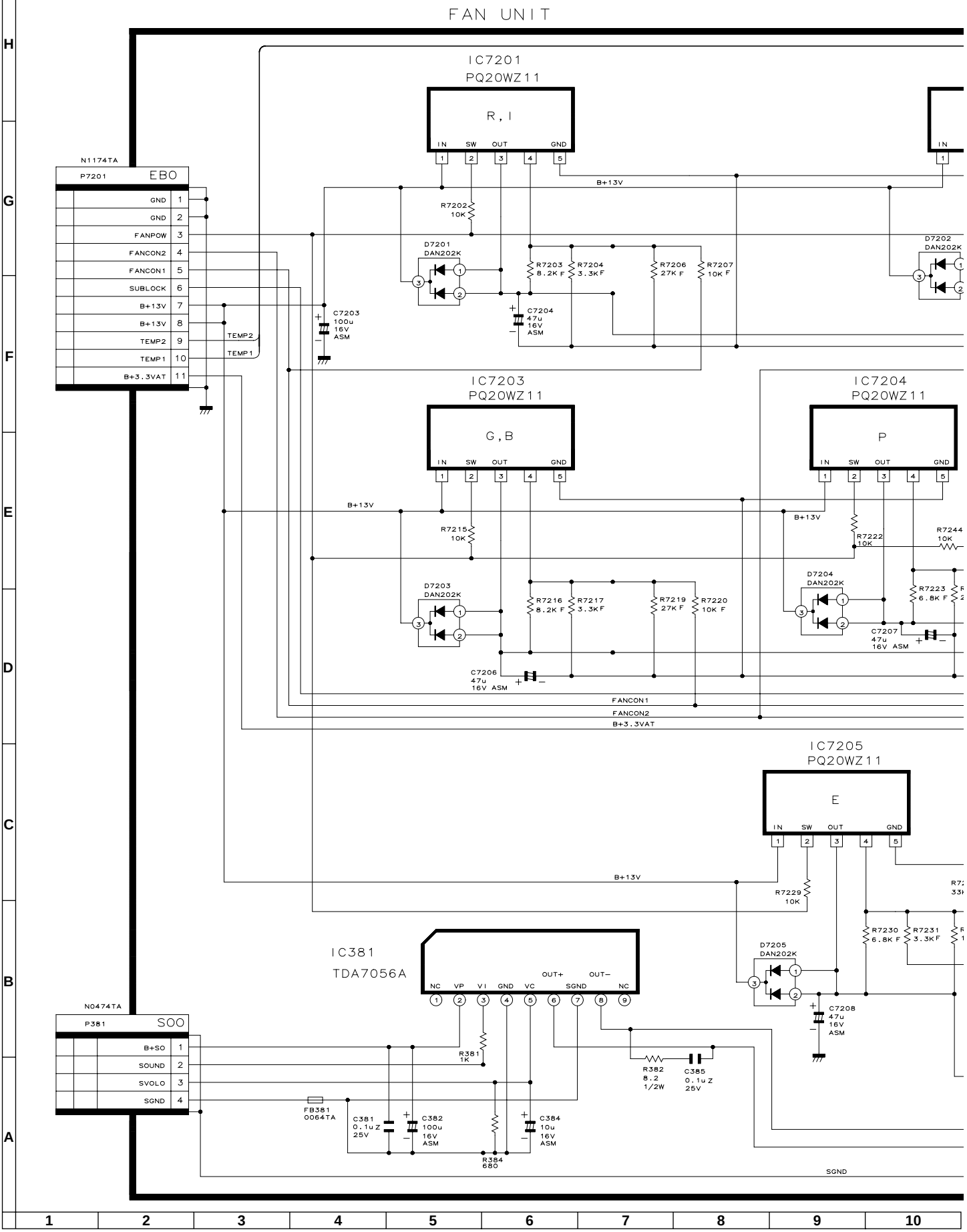
■ KEY UNIT / SCHLÜSSELEINHEIT

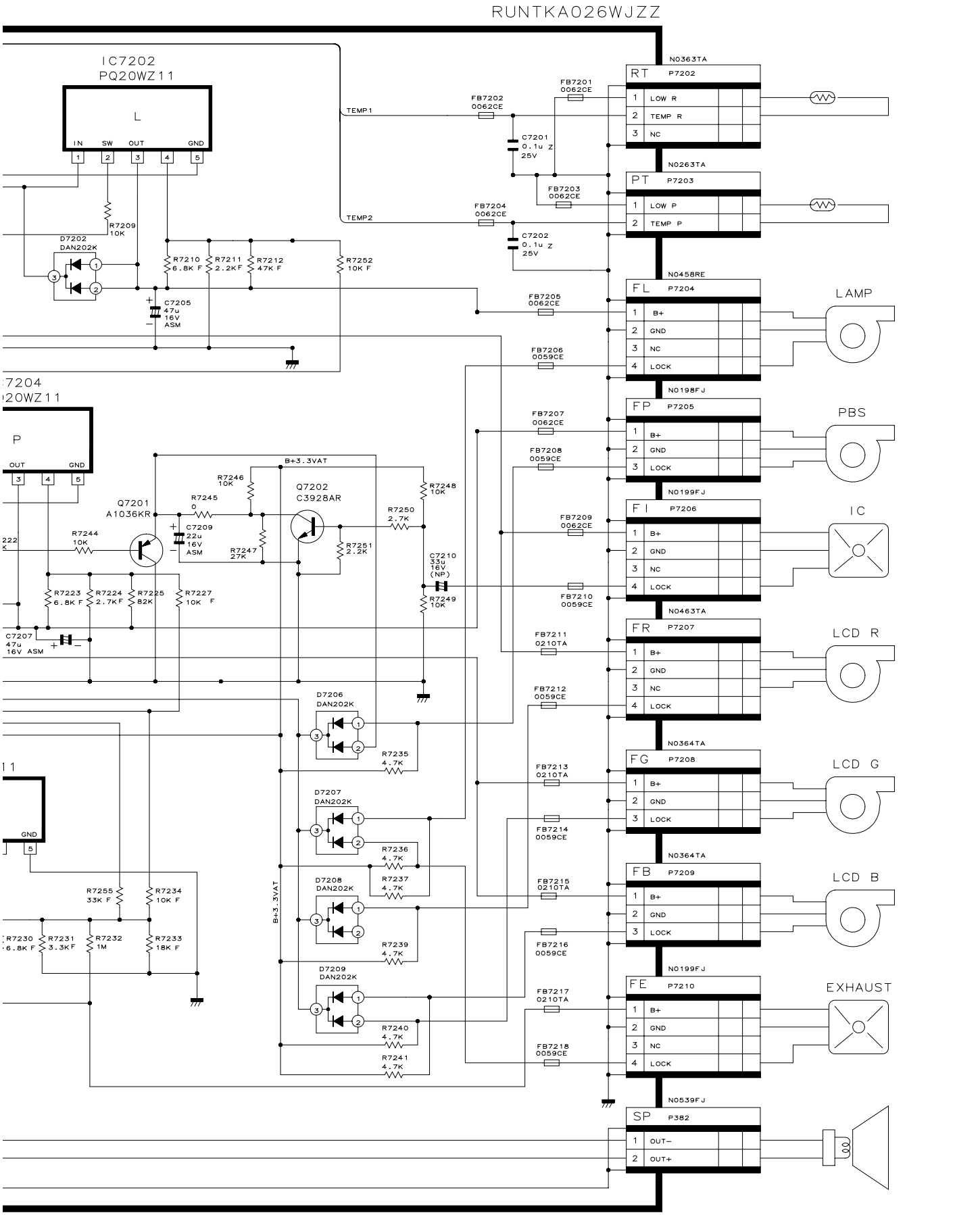




10	11	12	13	14	15	16	17	18	19

■ FAN UNIT / GEBLÄSE-HINHEIT

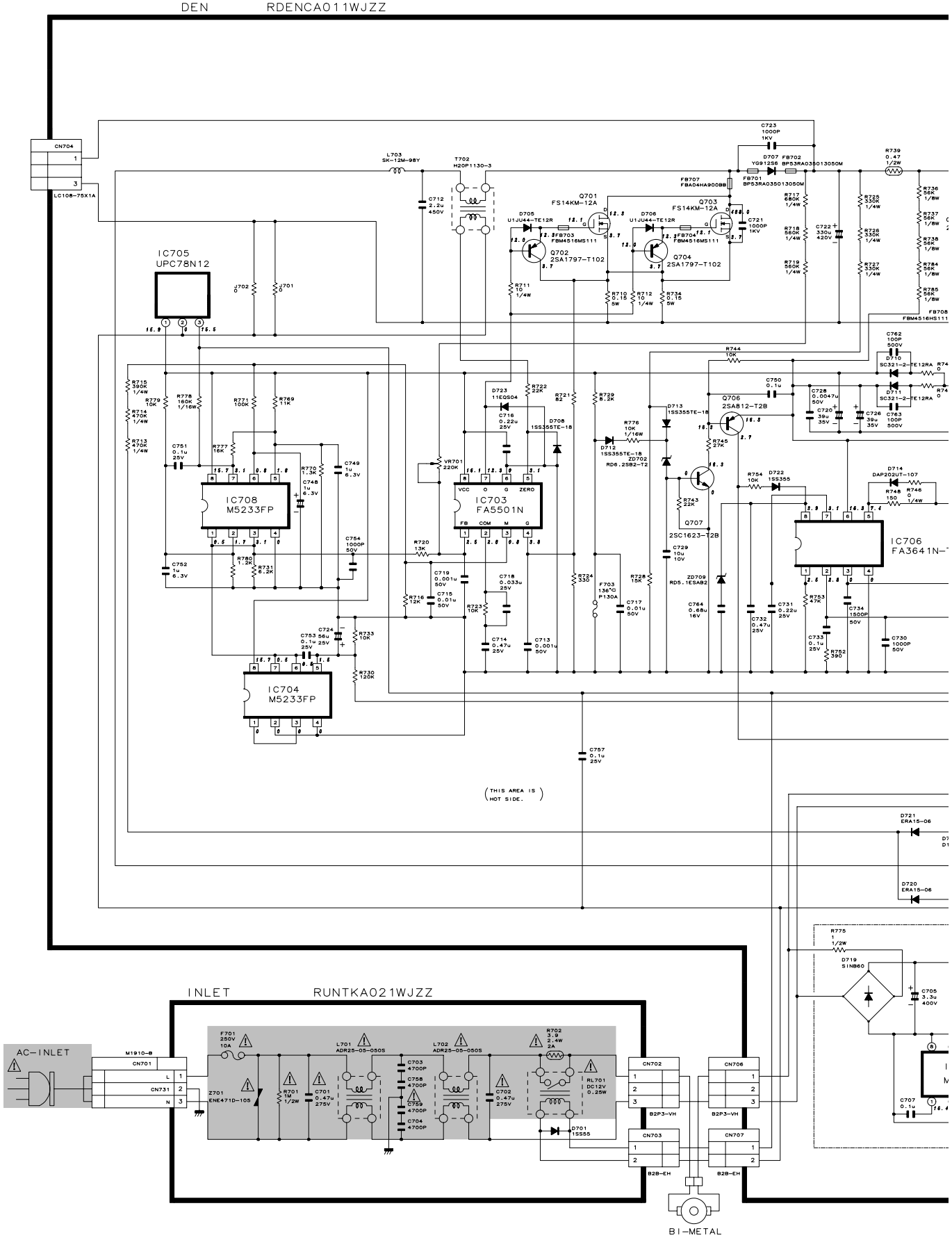


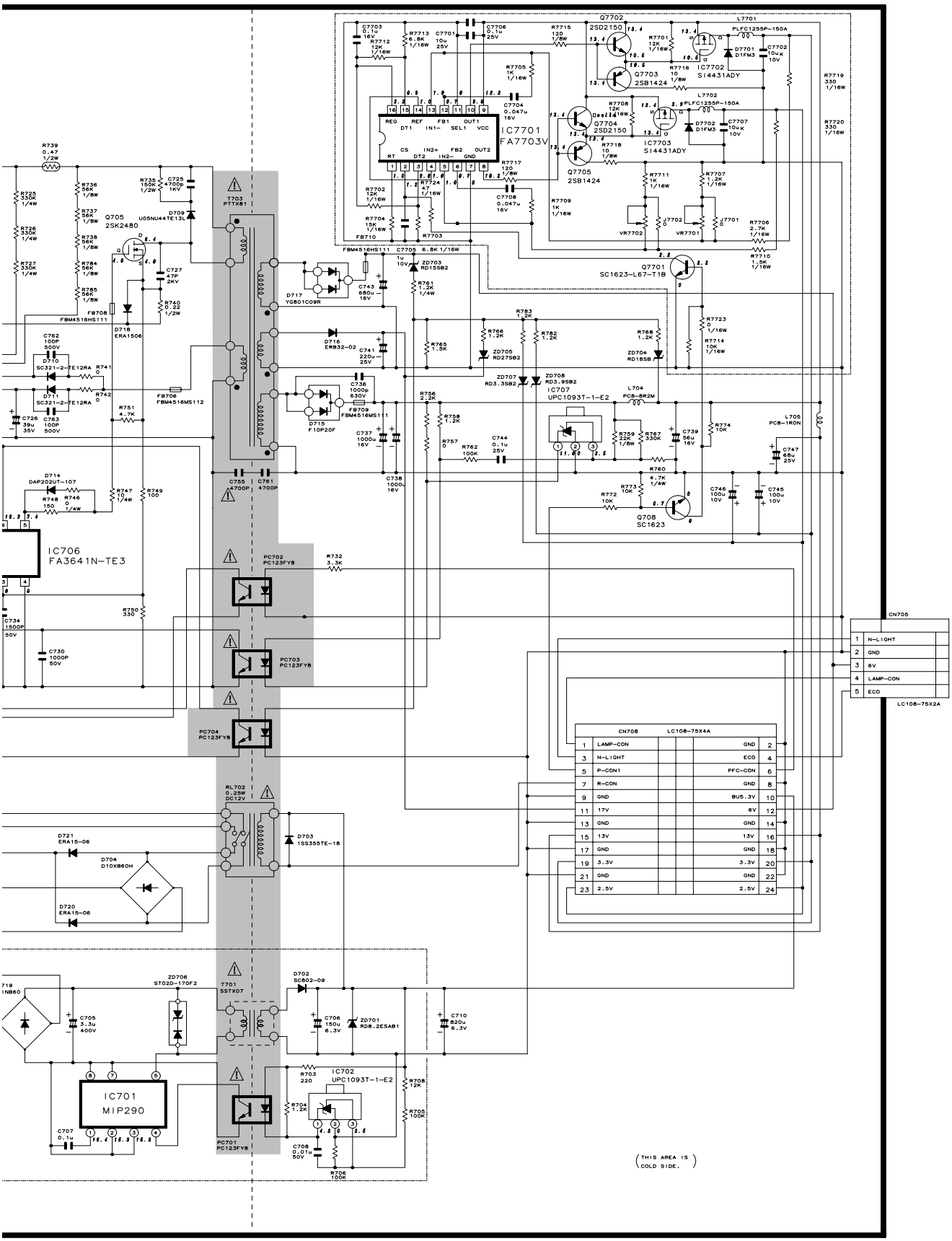


10	11	12	13	14	15	16	17	18	19

■ AC INLET and POWER UNIT / AC EINGANGS-und NETZ-EINHEIT

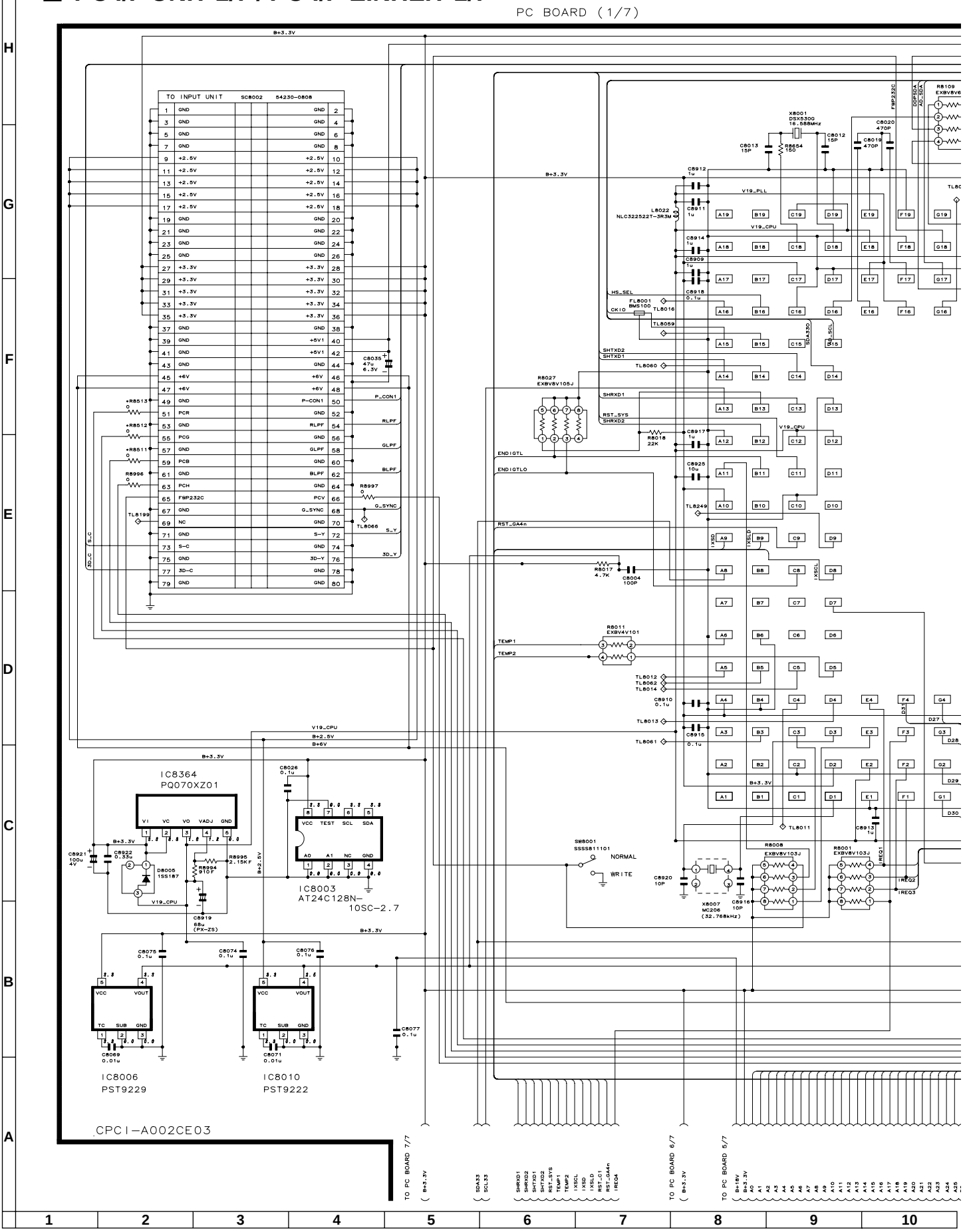
DEN RDENCA011WJZZ

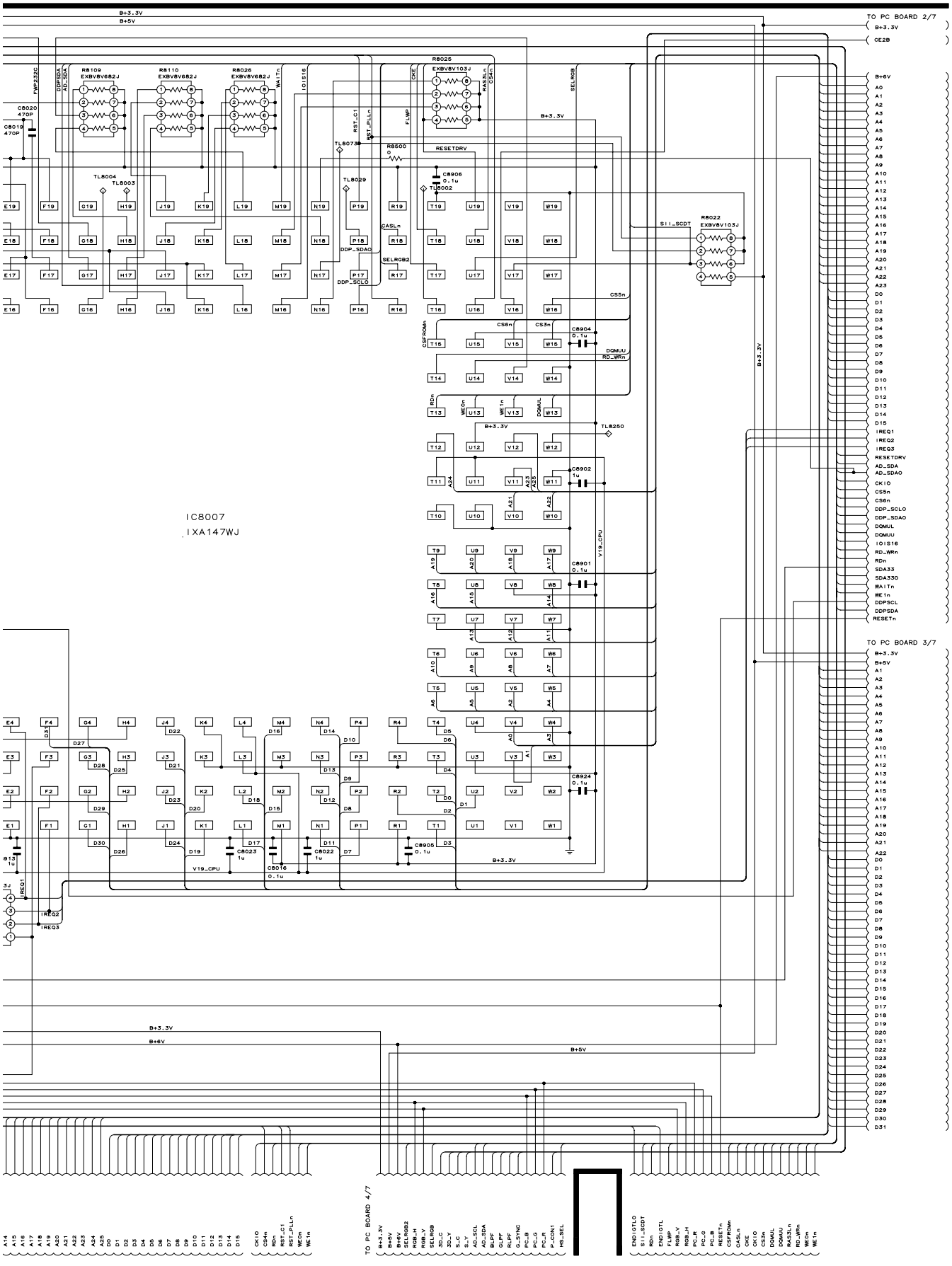




10	11	12	13	14	15	16	17	18	19

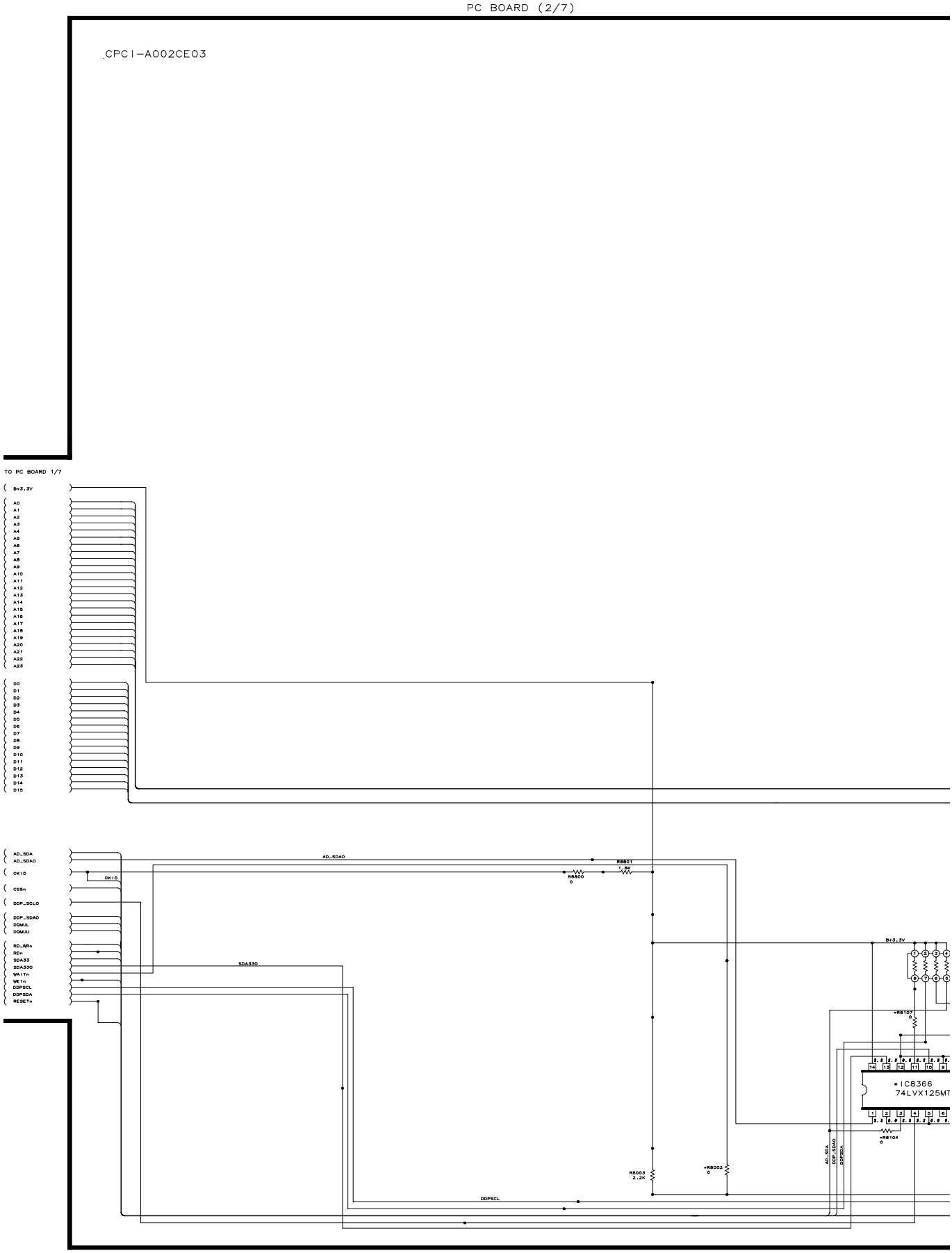
■ PC I/F UNIT-1/7 / PC-I/F-EINHEIT-1/7

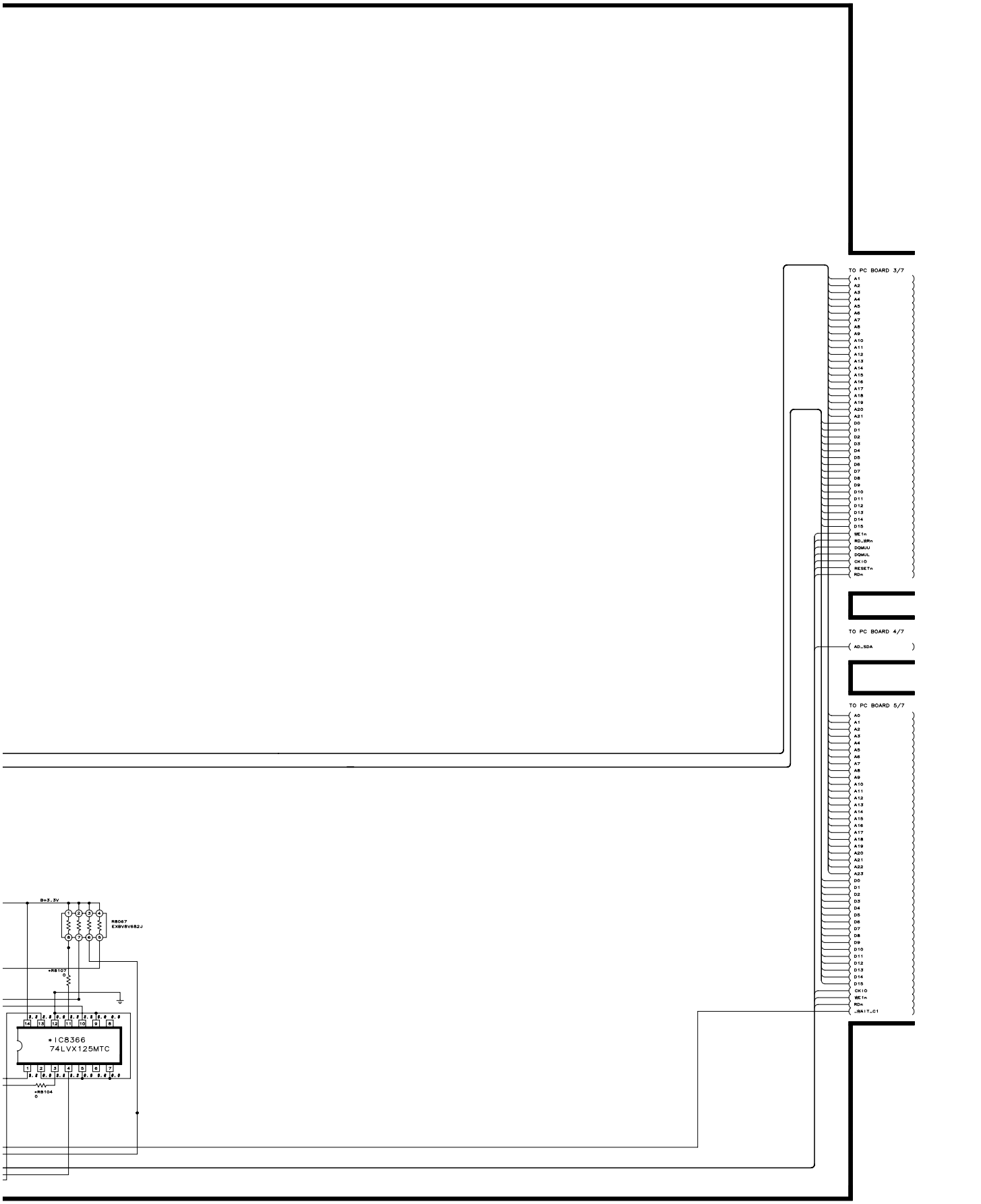




10	11	12	13	14	15	16	17	18	19

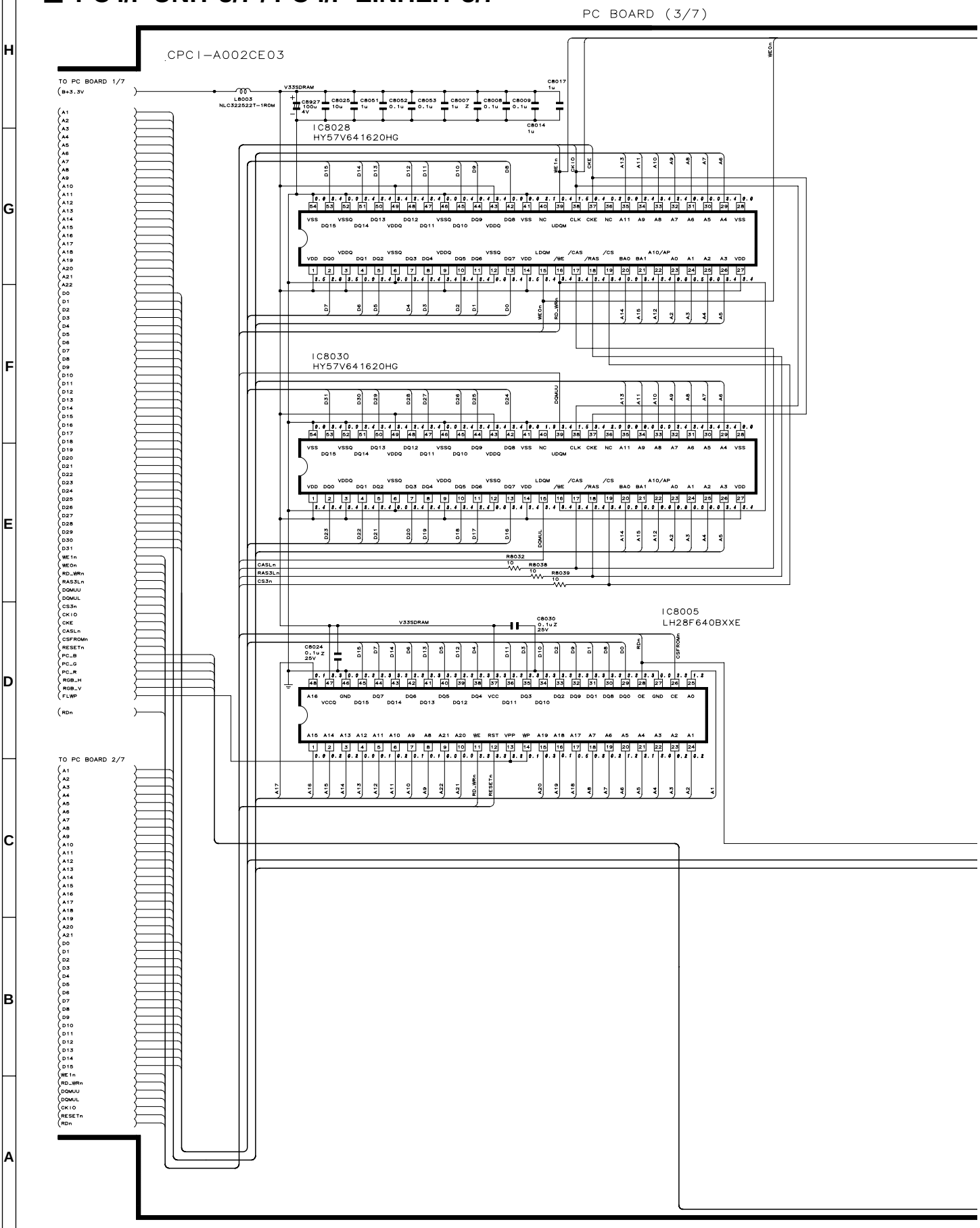
■ PC I/F UNIT-2/7 / PC-I/F-EINHEIT-2/7

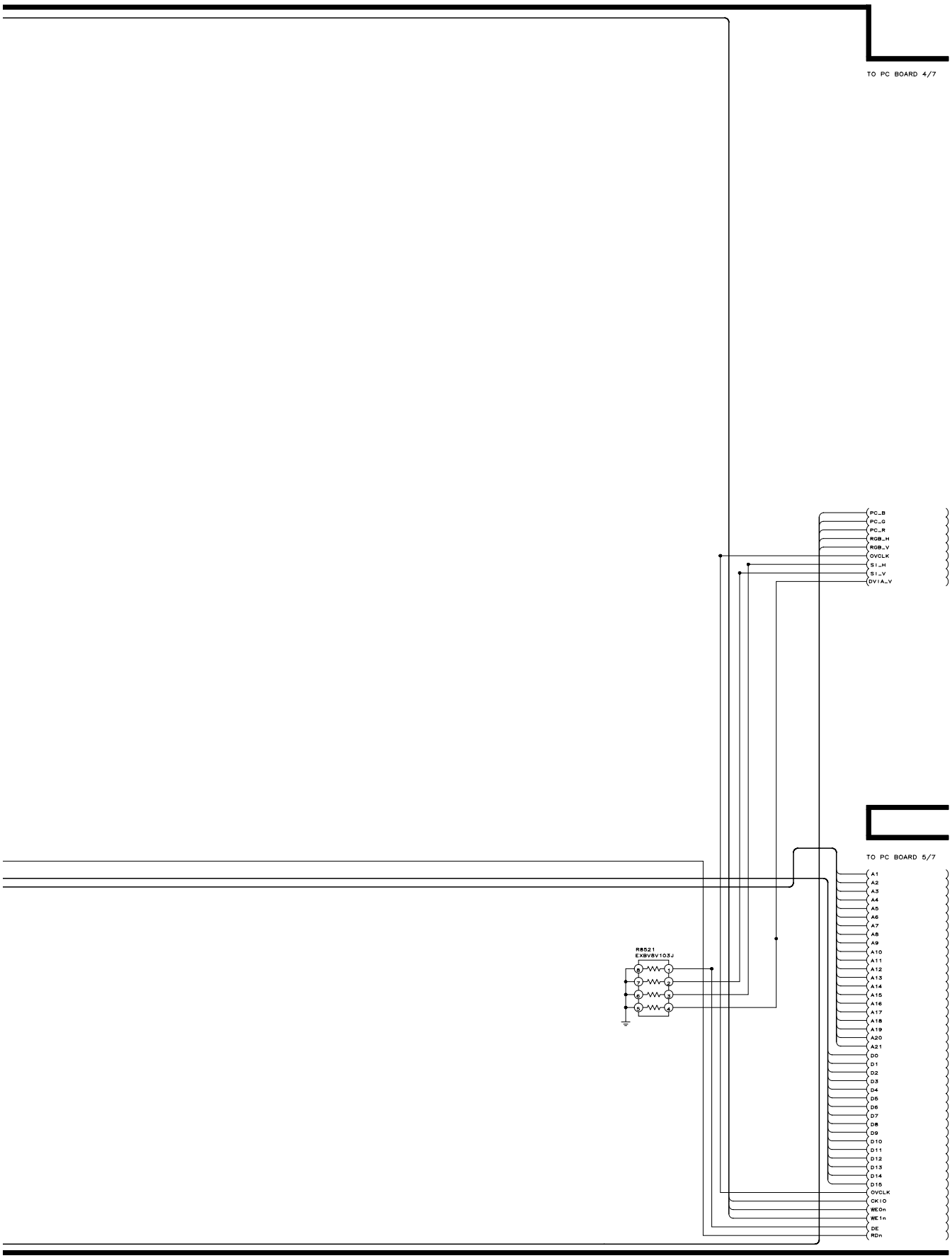




10	11	12	13	14	15	16	17	18	19

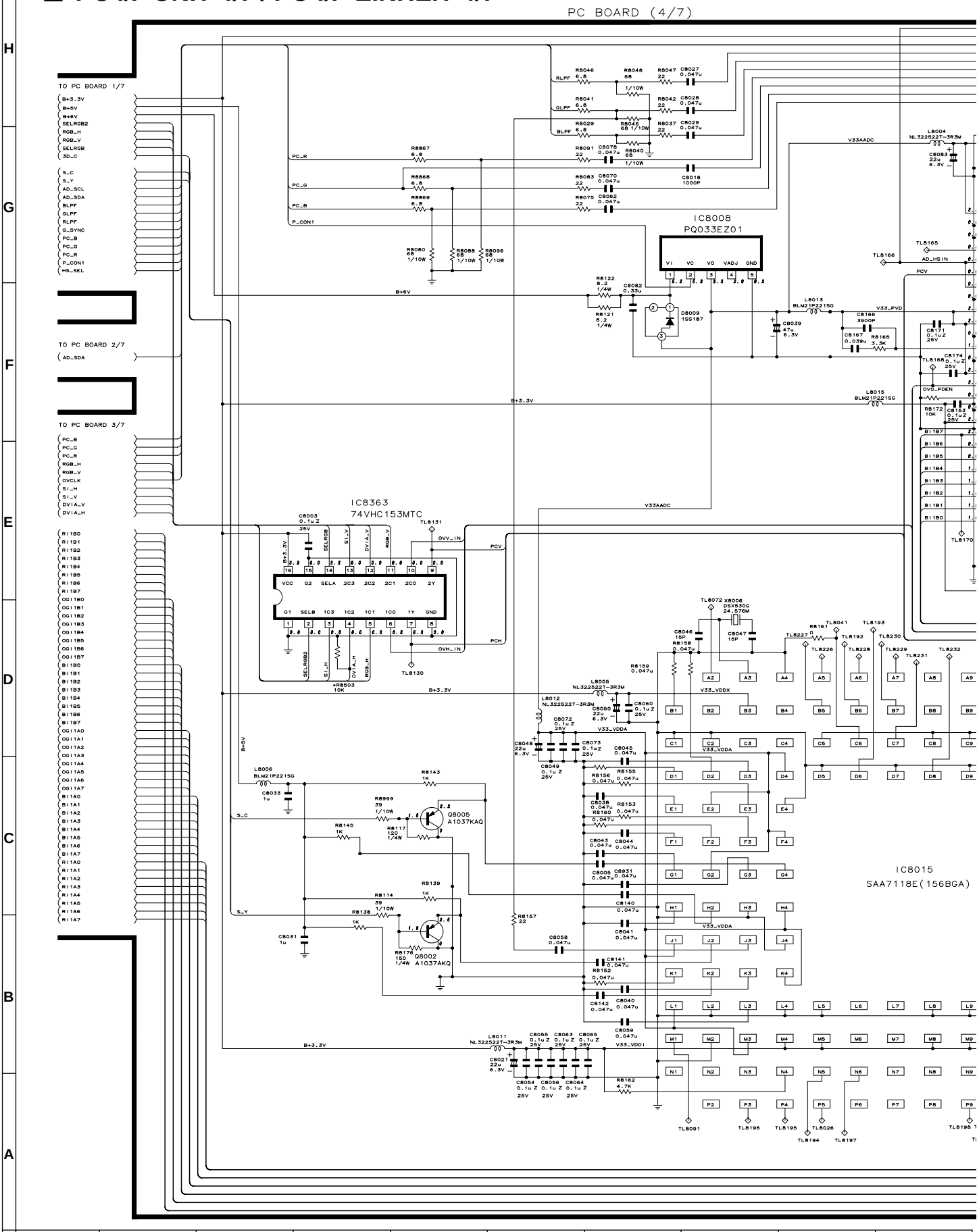
■ PC I/F UNIT-3/7 / PC-I/F-EINHEIT-3/7

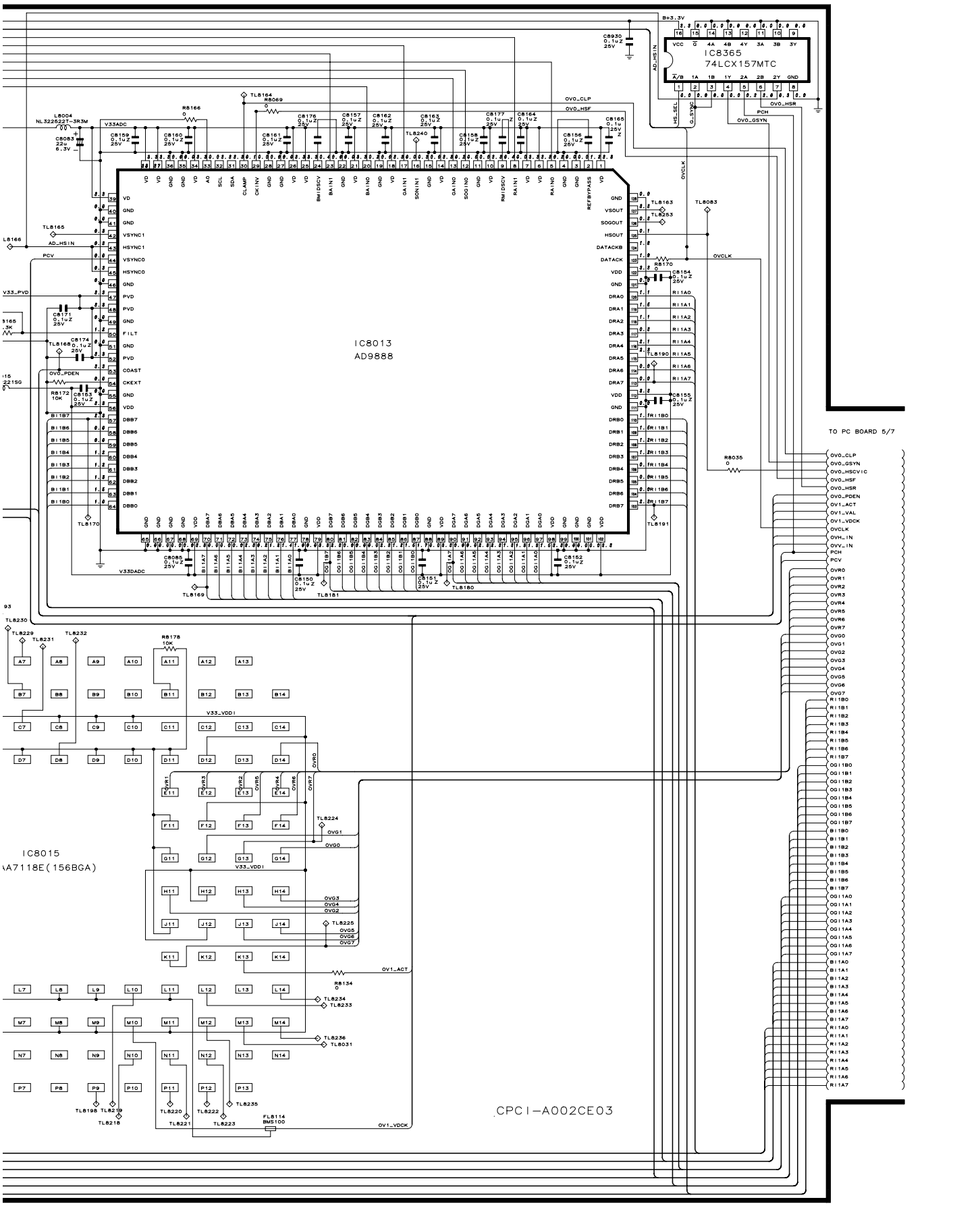




10	11	12	13	14	15	16	17	18	19

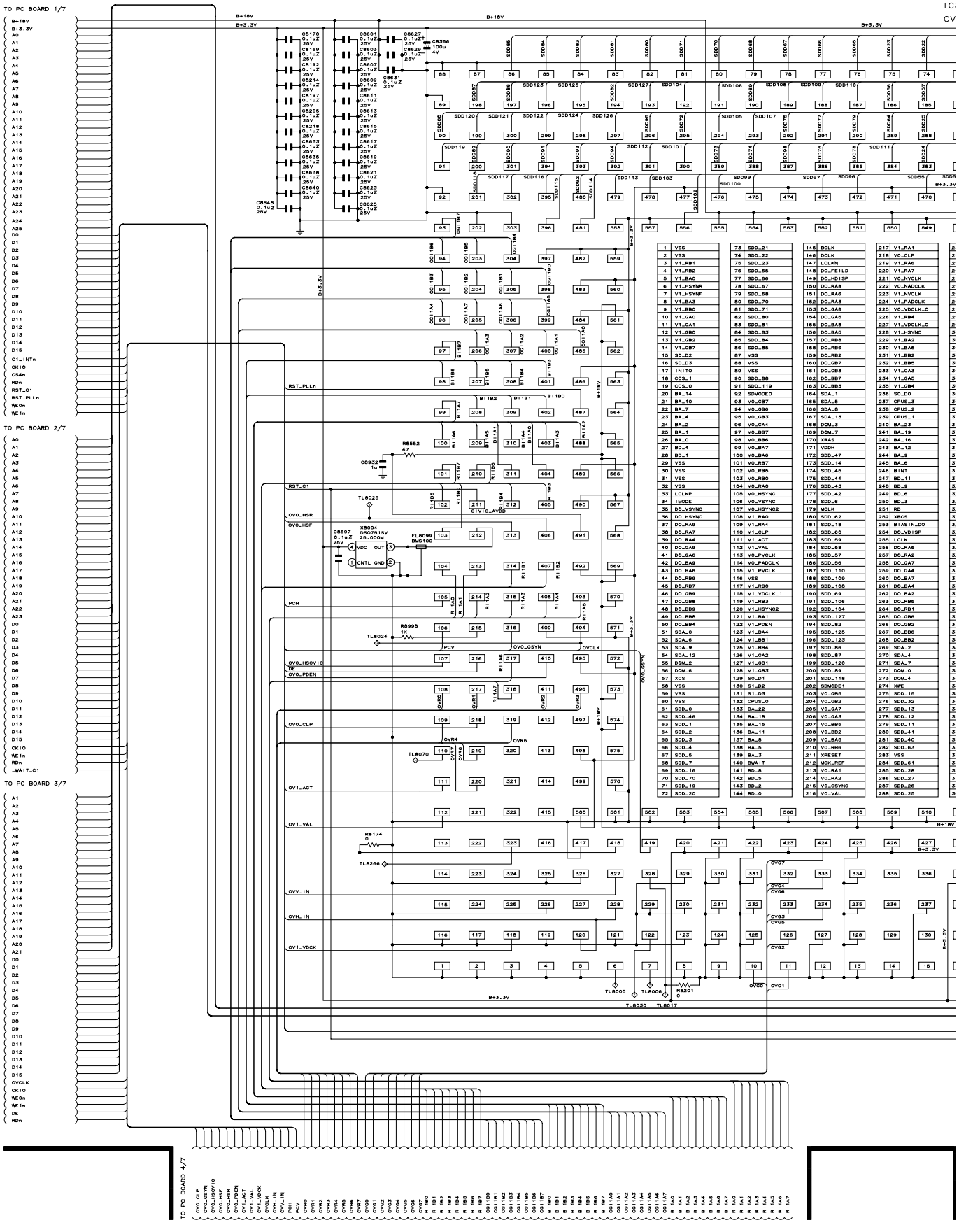
■ PC I/F UNIT-4/7 / PC-I/F-EINHEIT-4/7

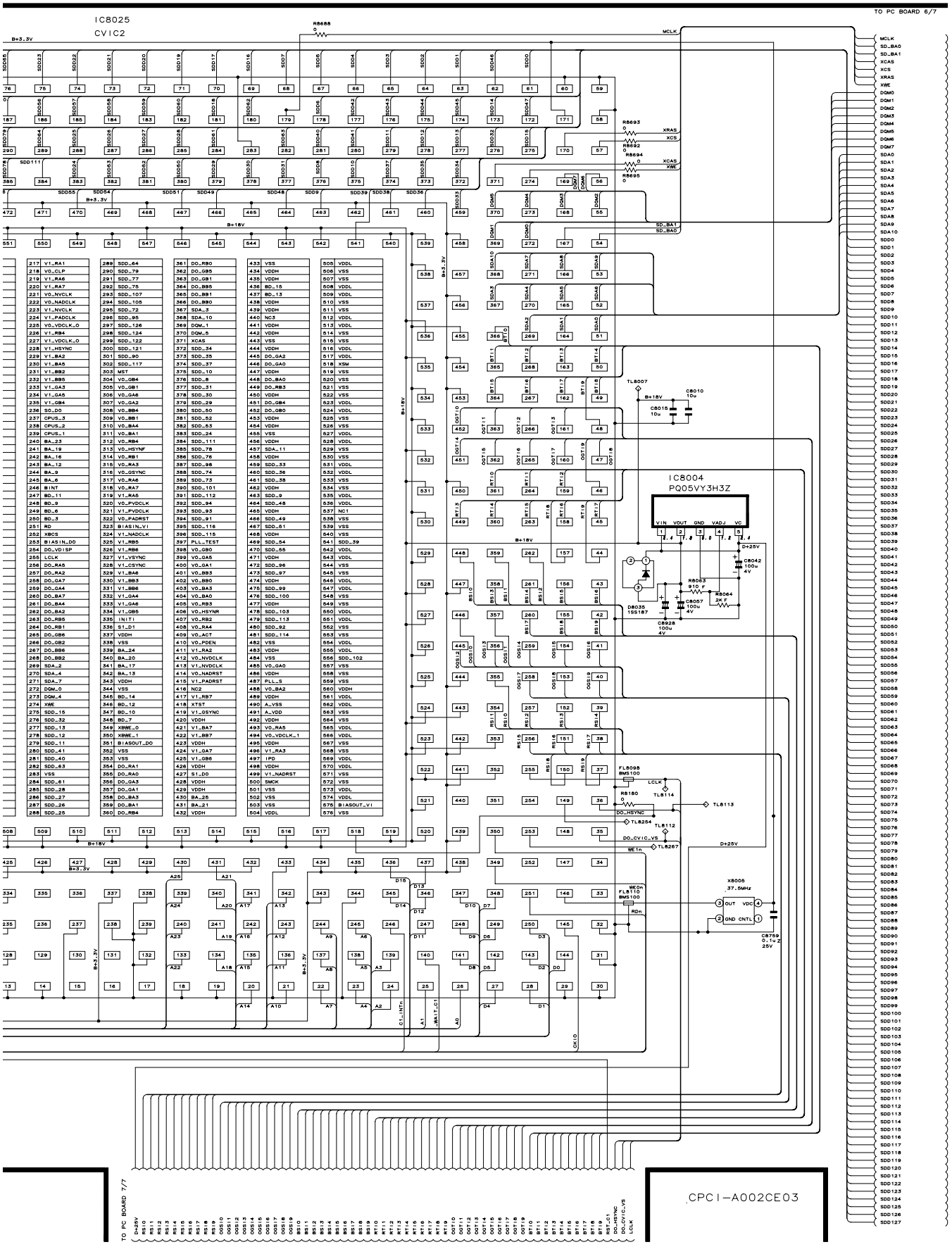



IC8013
AD9888
IC8365
74LCX157MTC
IC8015
CPCI-A002CE03
TO PC BOARD 5/7

■ PC I/F UNIT-5/7 / PC-I/F-EINHEIT-5/7

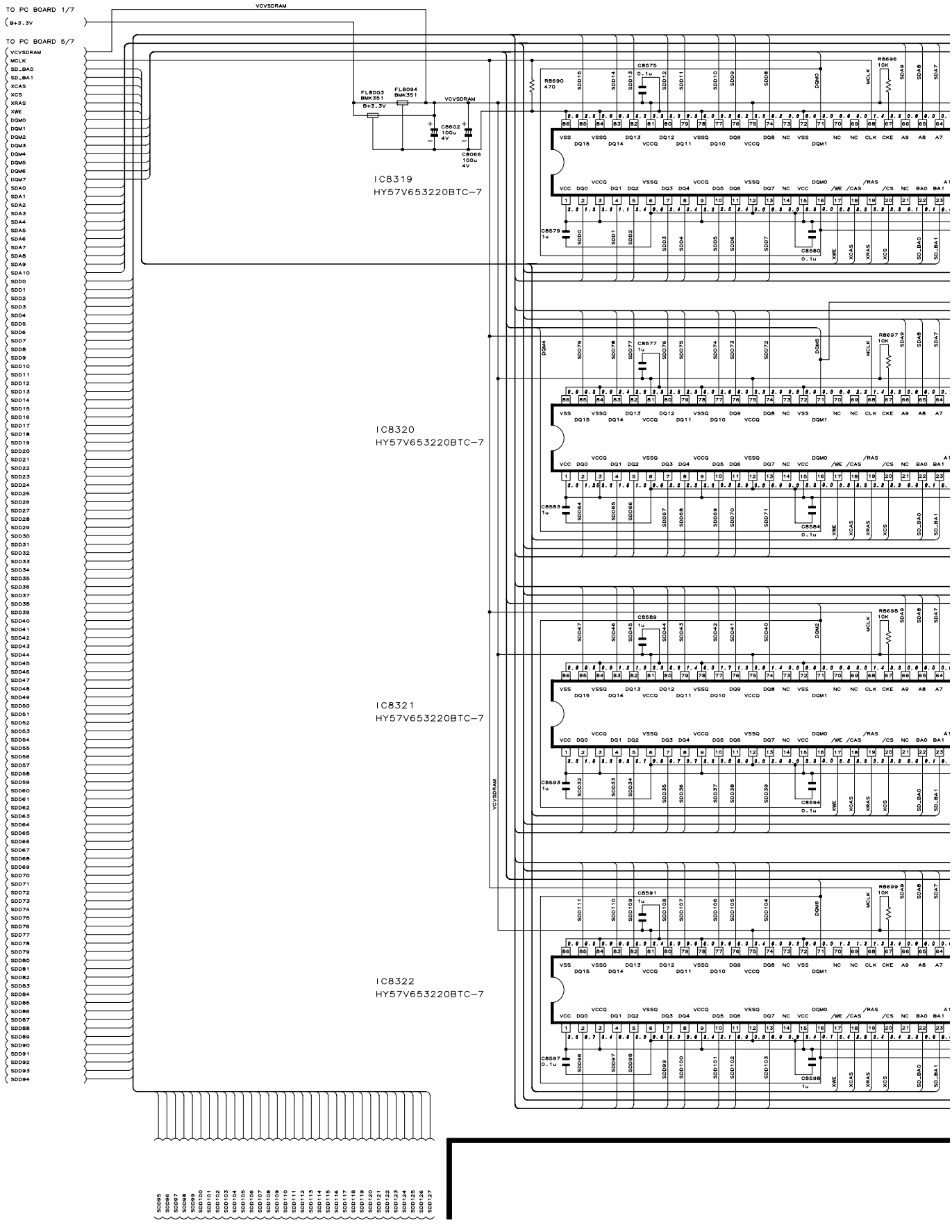
PC BOARD (5/7)

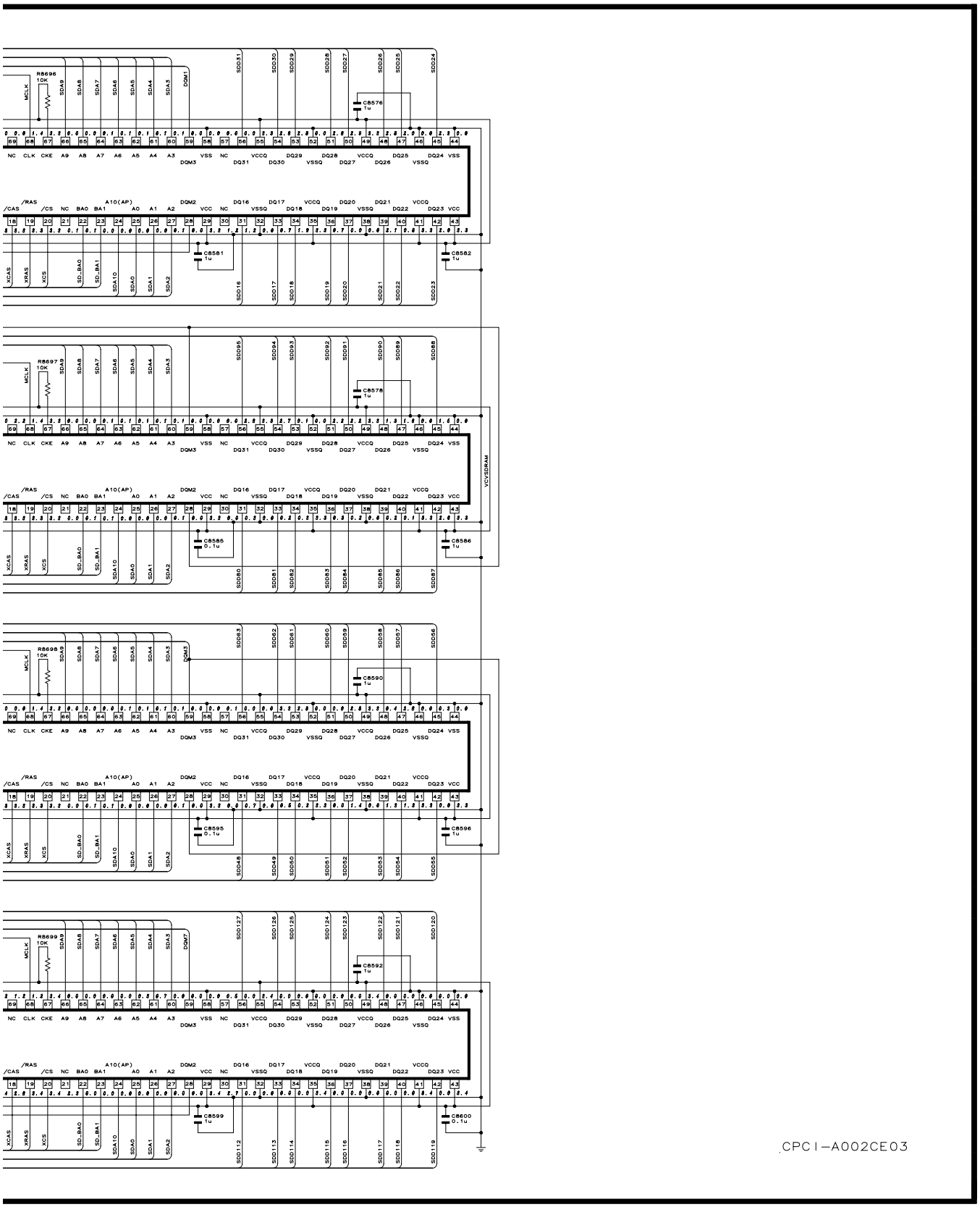



IC8025
CVIC2
IC8004
PQ05VY3H3Z
TO PC BOARD 6/7
TO PC BOARD 7/7
CPCI-A002CE03

■ PC I/F UNIT-6/7 / PC-I/F-EINHEIT-6/7

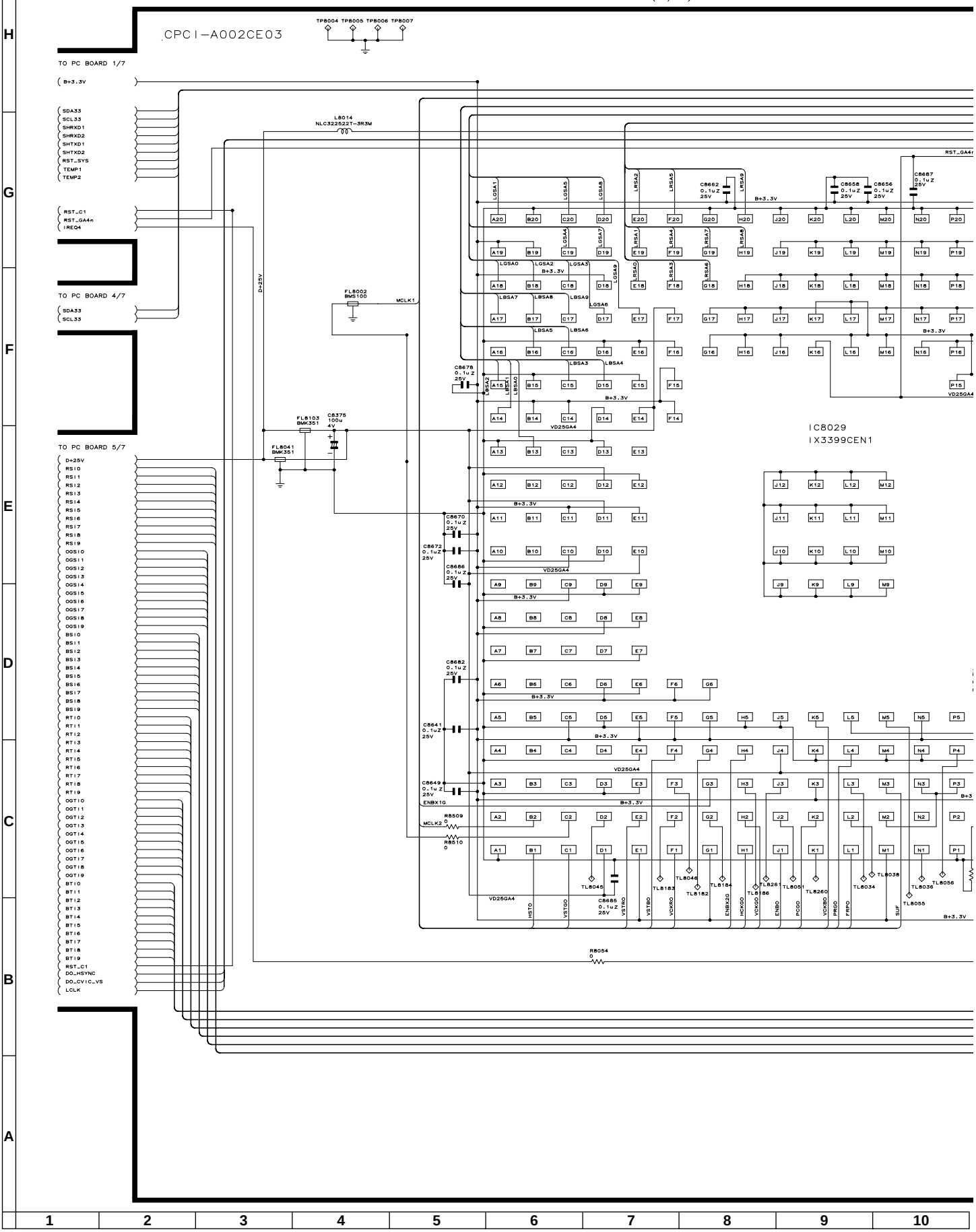
PC BOARD (6/7)

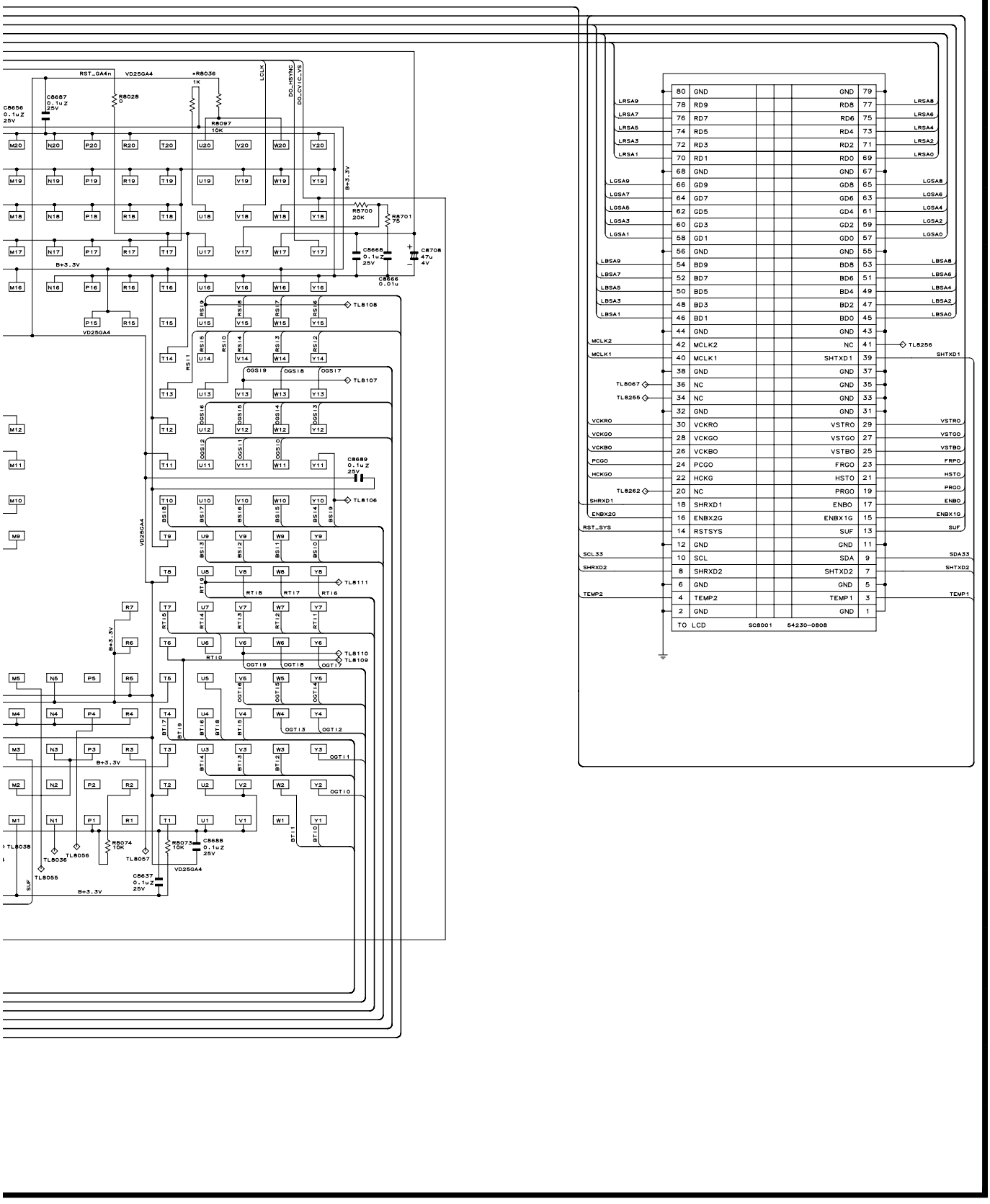




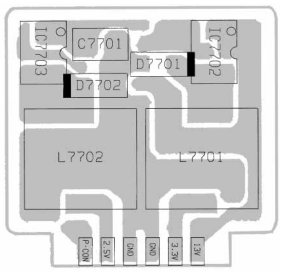
10	11	12	13	14	15	16	17	18	19

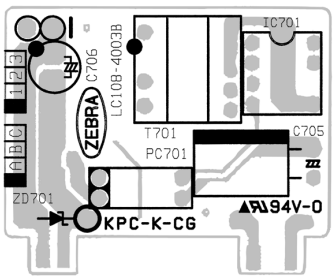
■ PC I/F UNIT-7/7 / PC-I/F-EINHEIT-7/7

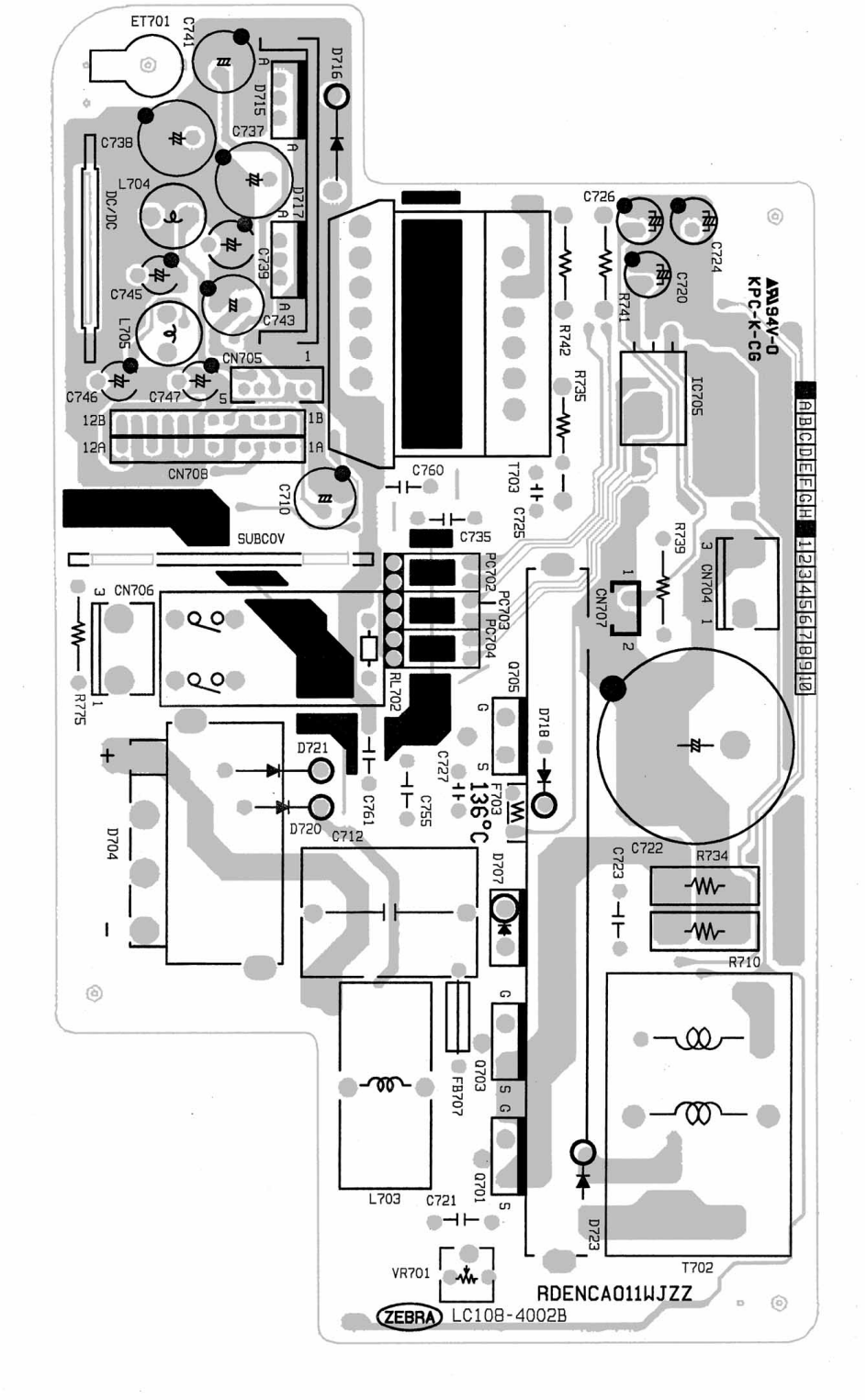



TO LCD
SC8001
54230-0808
80 GND
78 RD9
76 RD7
74 RD5
72 RD3
70 RD1
68 GND
66 GD9
64 GD7
62 GD5
60 GD3
58 GD1
56 GND
54 BD9
52 BD7
50 BD5
48 BD3
46 BD1
44 GND
42 MCLK2
40 MCLK1
38 GND
36 NC
34 NC
32 GND
30 VCKRO
28 VCKGO
26 VCKBO
24 PCGO
22 HCKG
20 NC
18 SHRXD1
16 ENBX2G
14 RSTSYS
12 GND
10 SCL
8 SHRXD2
6 GND
4 TEMP2
2 GND
79 GND
77 RD8
75 RD6
73 RD4
71 RD2
69 RD0
67 GND
65 GD8
63 GD6
61 GD4
59 GD2
57 GD0
55 GND
53 BD8
51 BD6
49 BD4
47 BD2
45 BD0
43 GND
41 NC
39 SHTXD1
37 GND
35 GND
33 GND
31 GND
29 VSTRO
27 VSTGO
25 VSTBO
23 FRPO
21 HSTO
19 PRGO
17 ENBO
15 ENBX1G
13 SUF
11 GND
9 SDA33
7 SHTXD2
5 GND
3 TEMP1
1 GND
RST_GA4n
VD25GA4
+R8036
1K
R8028
0
R8097
10K
C8687
0.1uZ
25V
C8656
0.1uZ
25V
LCLK
DO_HSYNC
DO_CVIC_VS
B+3.3V
R8700
20K
R8701
75
C8668
0.1uZ
25V
C8705
47u
4V
C8666
0.01u
TL8108
TL8107
TL8106
TL8111
TL8110
TL8109
C8689
0.1uZ
25V
R8074
10K
R8073
10K
C8688
0.1uZ
25V
C8637
0.1uZ
25V
TL8038
TL8036
TL8056
TL8057
TL8055
TL8256
TL8067
TL8255
TL8262
SUF

PRINTED WIRING BOARD ASSEMBLIES
LEITERPLATTENINHEITIN

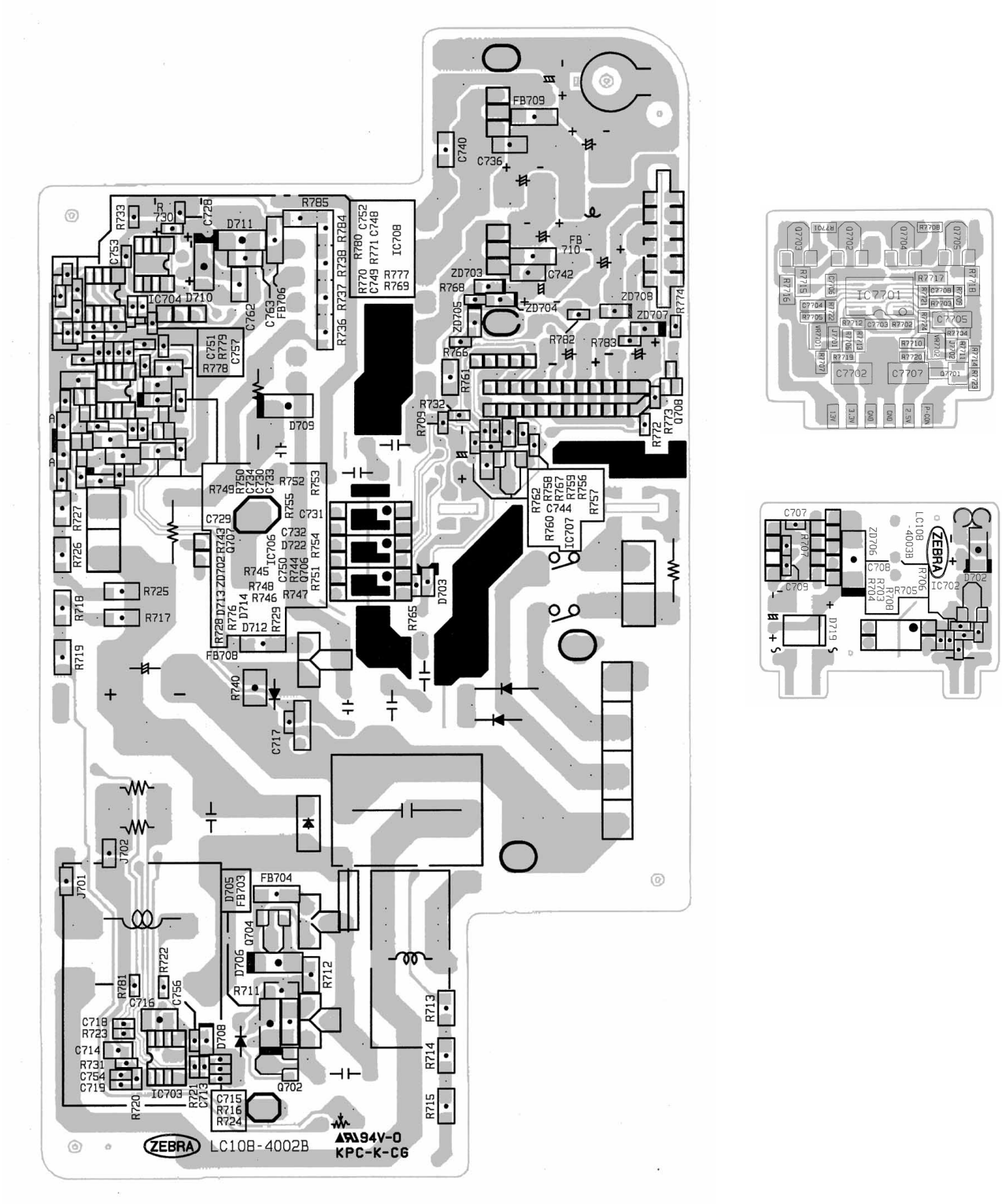




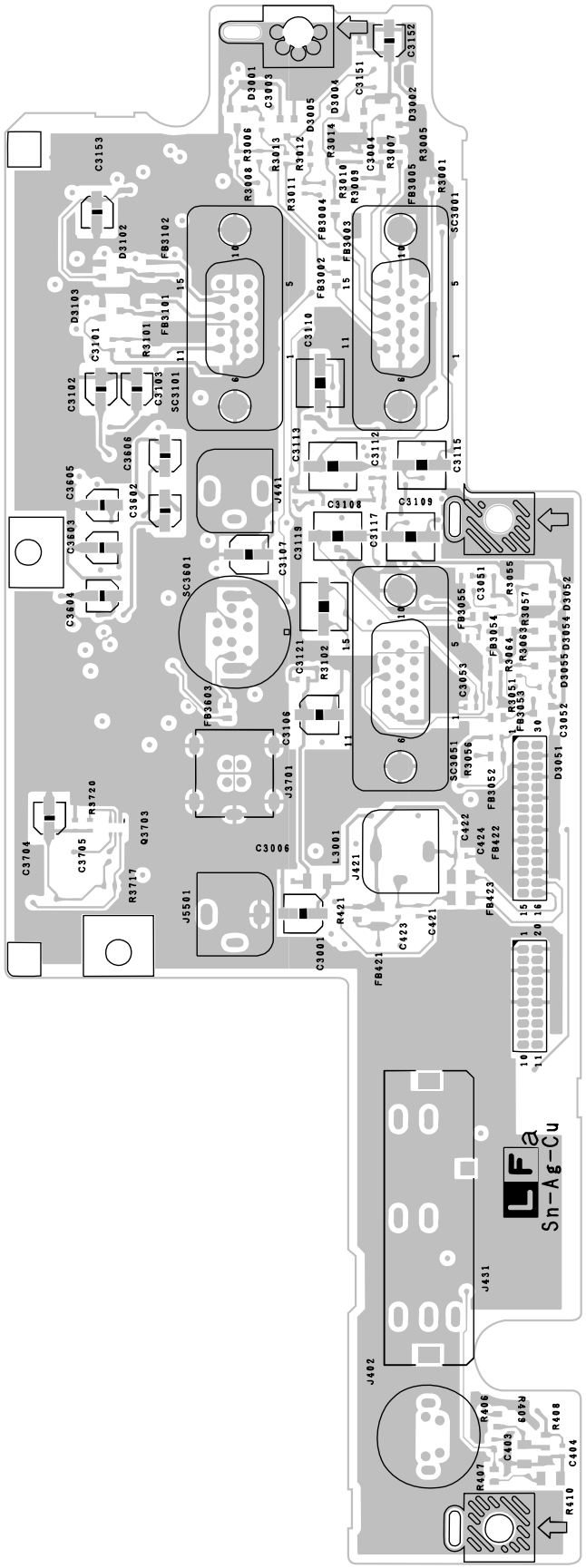


POWER Unit (Side-A)
NETZ-Einheit (Seite-A)

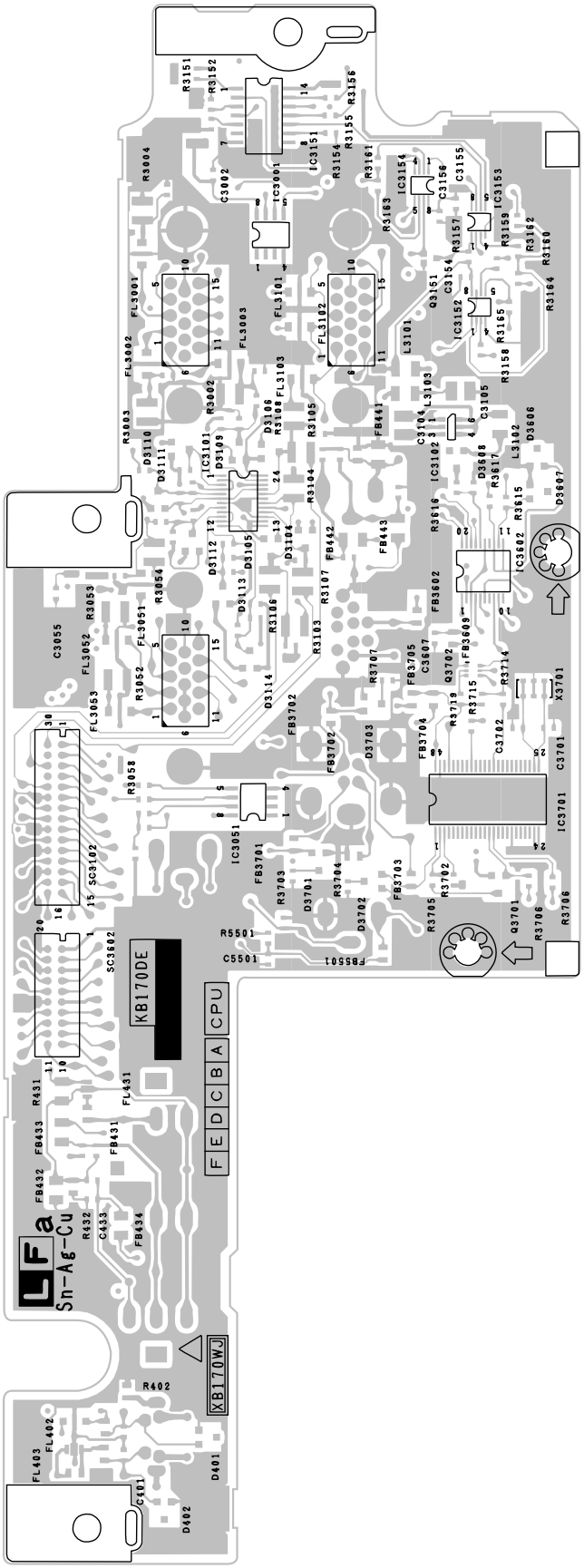
1	2	3	4	5	6



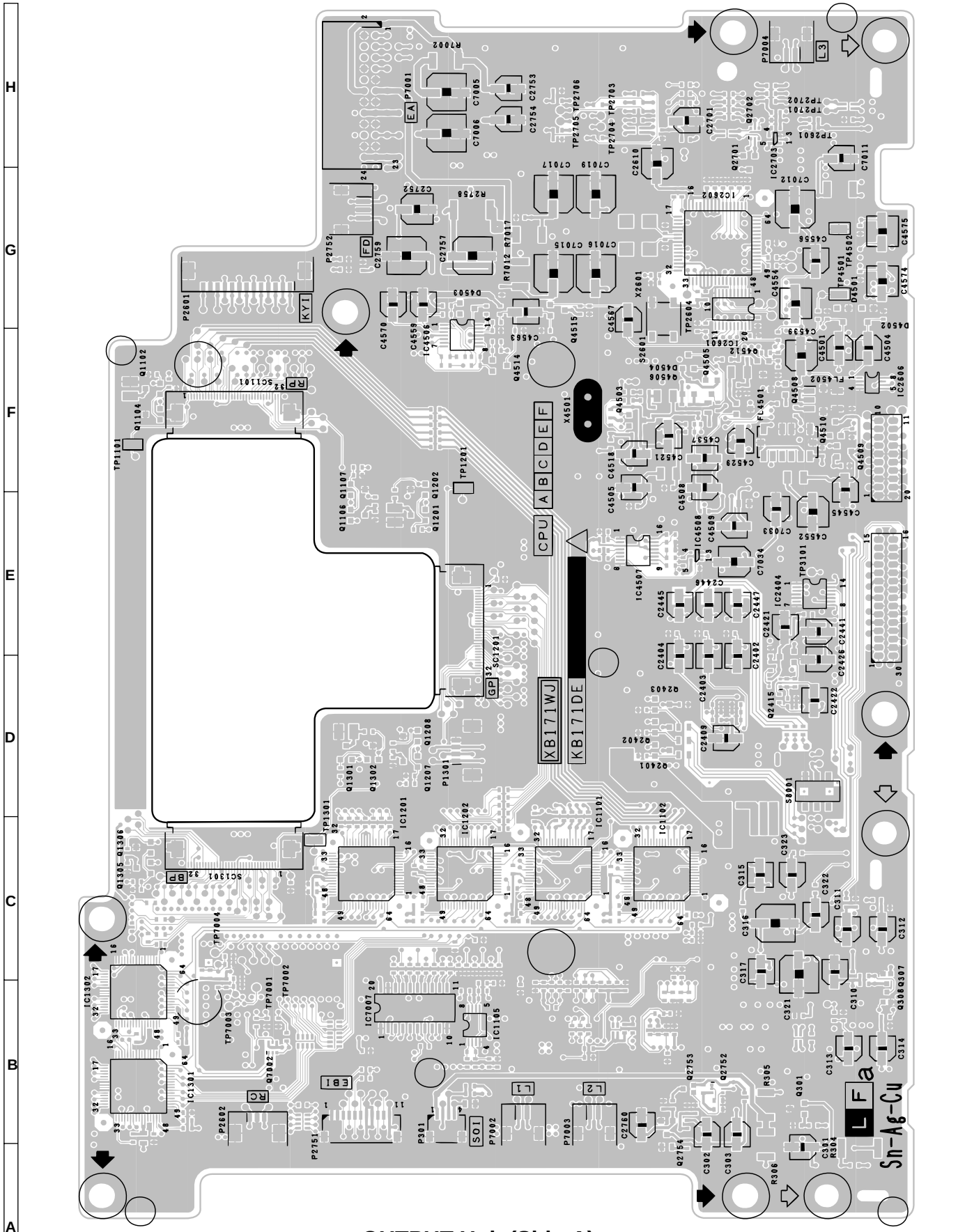
POWER Unit (Side-B)
NETZ-Einheit (Seite-B)



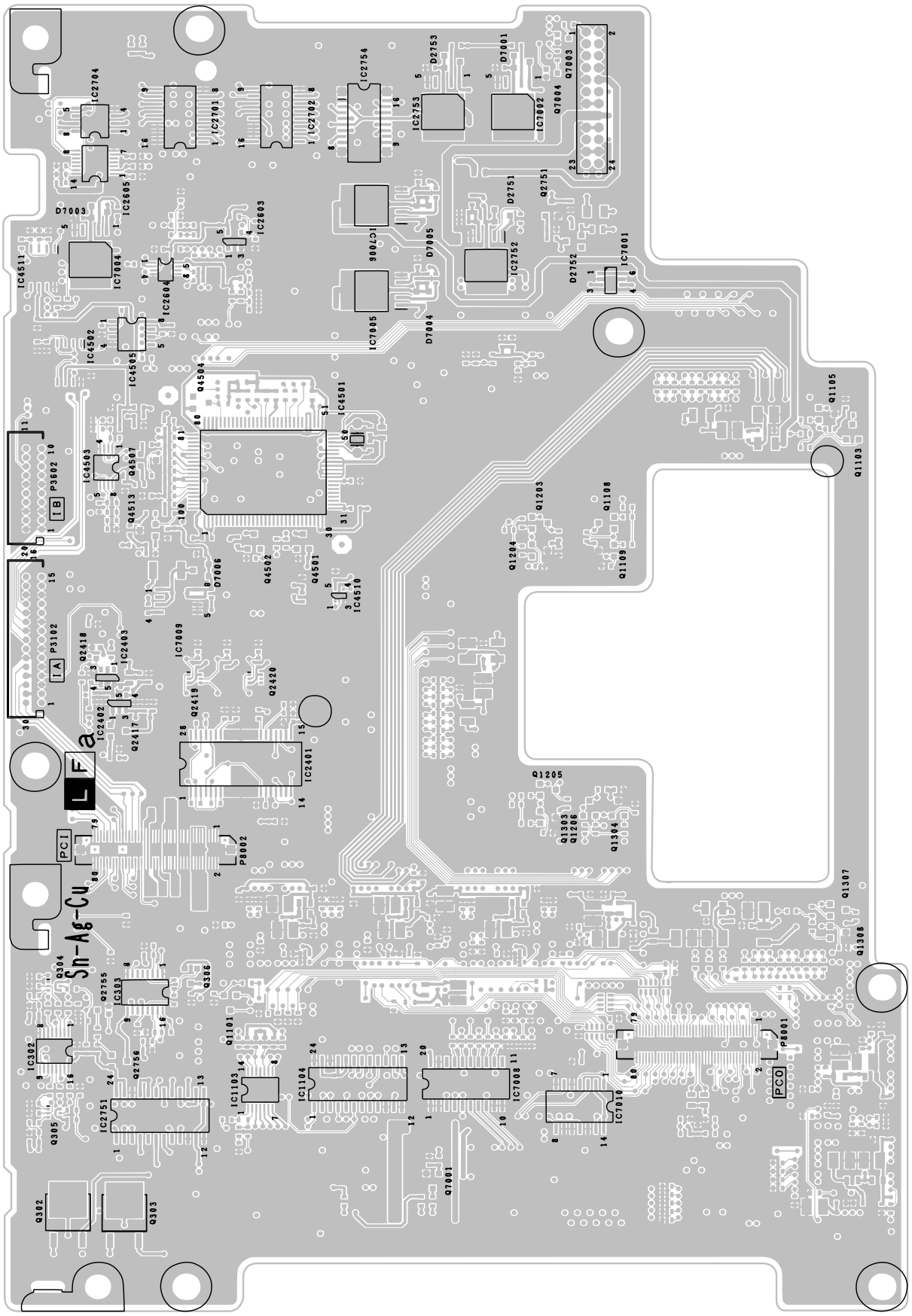
INPUT Unit (Side-A)
EINGANGS-Einheit (Seite-A)



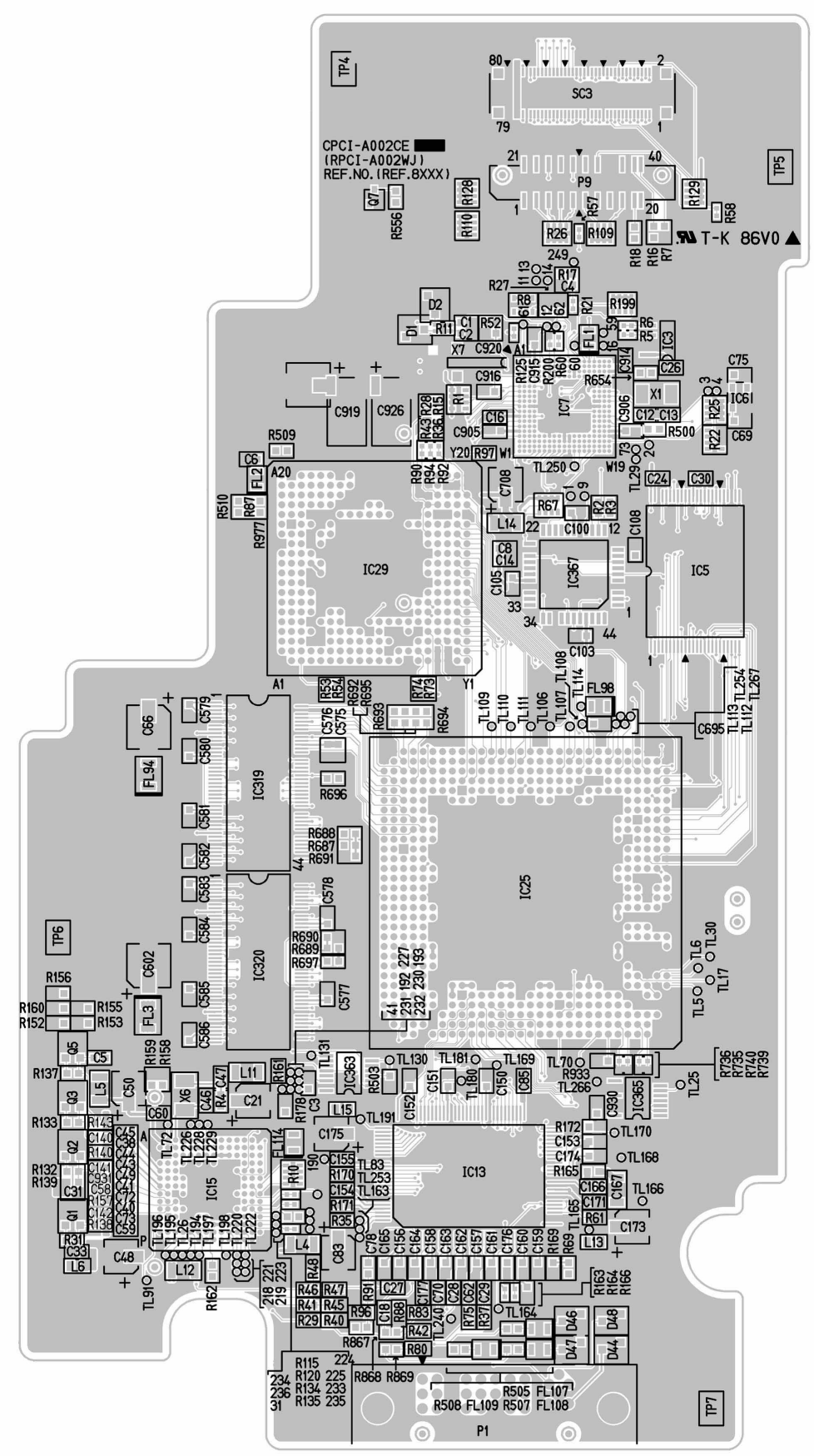
INPUT Unit (Side-B)
EINGANGS-Einheit (Seite-B)



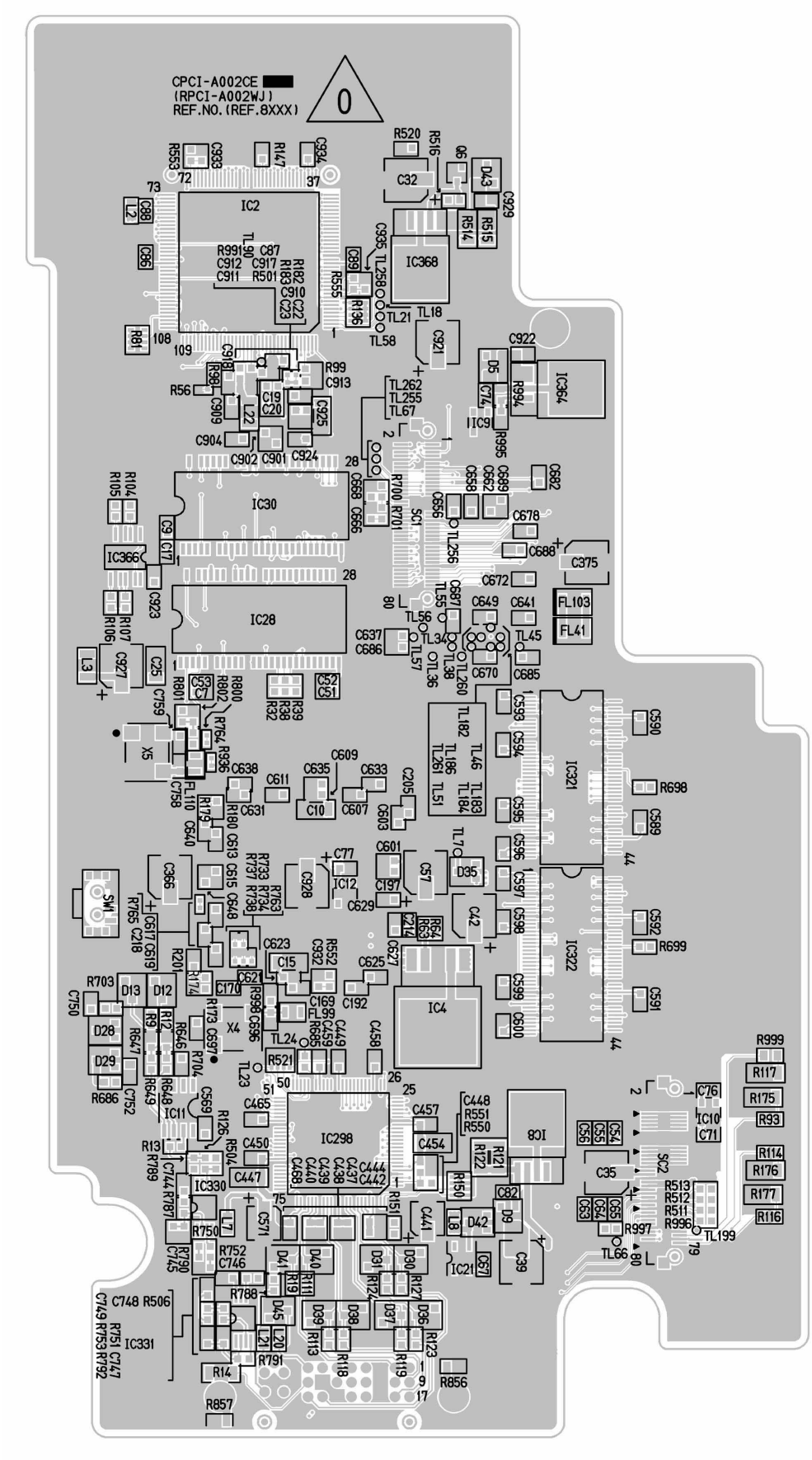
OUTPUT Unit (Side-A)
AUSGANGS-Einheit (Seite-A)



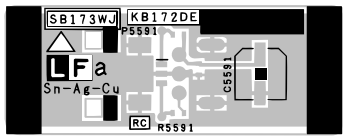
OUTPUT Unit (Side-B)
AUSGANGS-Einheit (Seite-B)



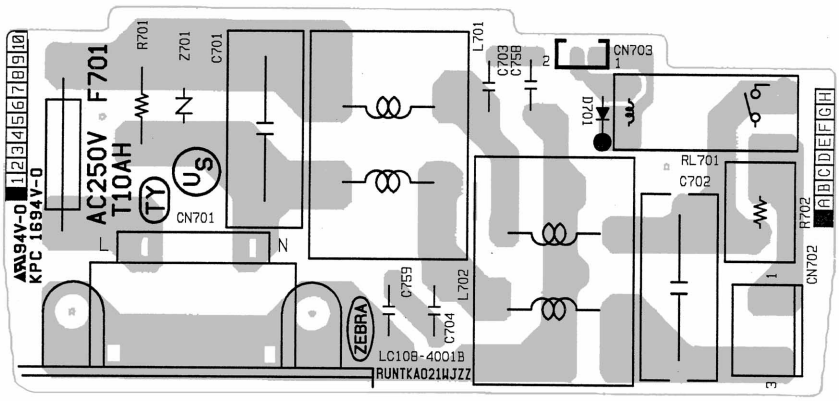
PC I/F Unit (Side-A)
PC I/F-Einheit (Seite-A)



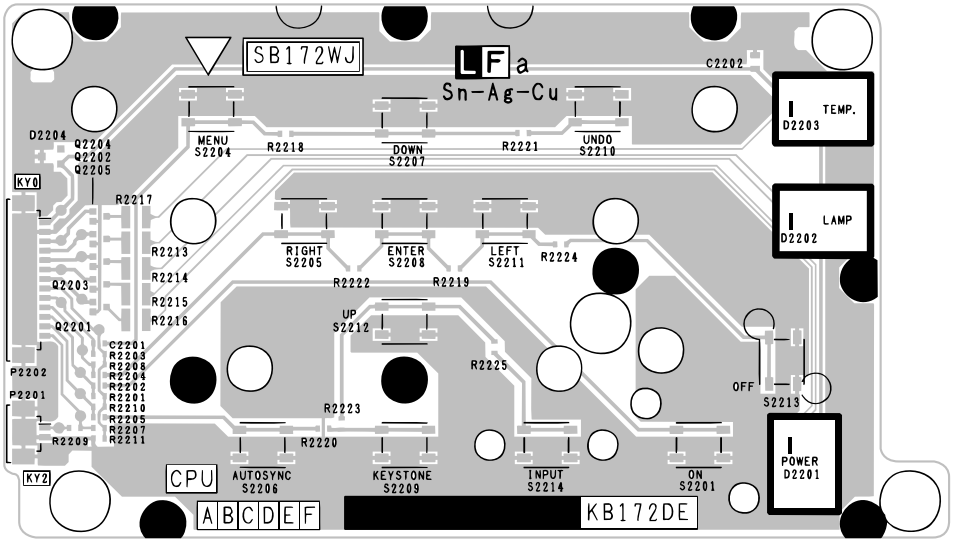
PC I/F Unit (Side-B)
PC I/F-Einheit (Seite-B)



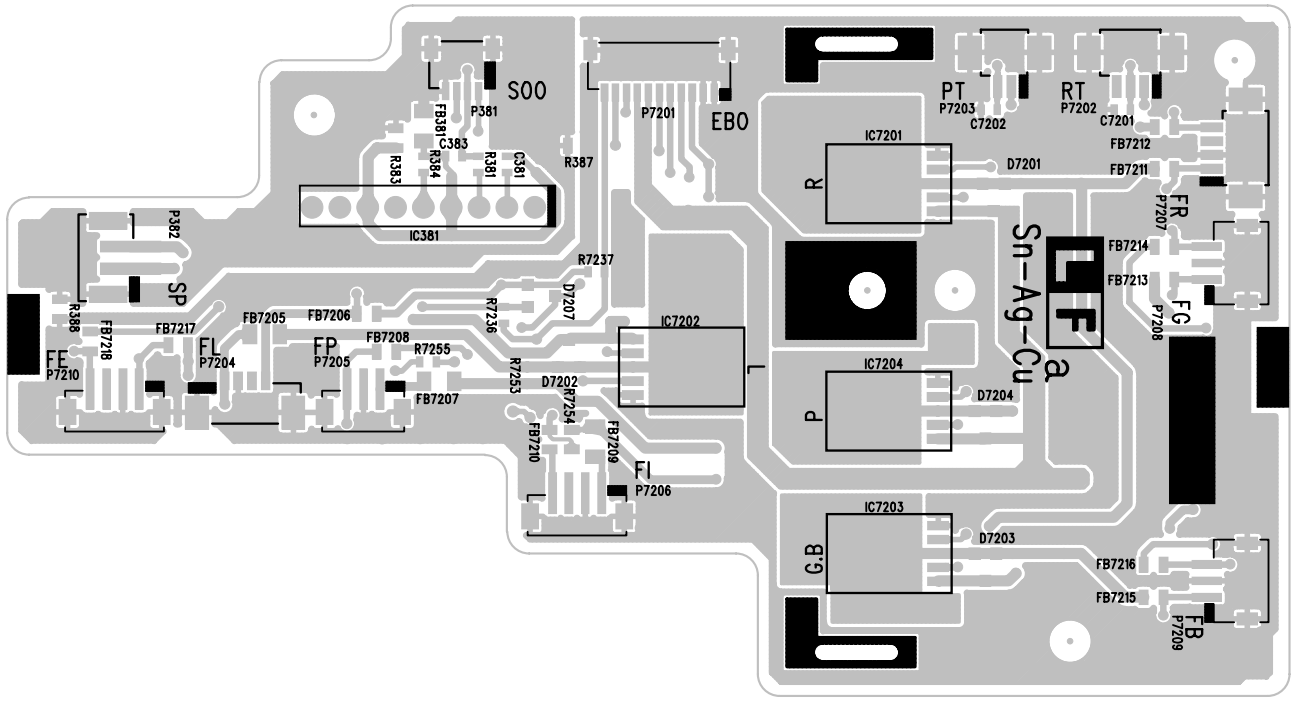
R/C RECEIVER Unit (Wiring Side)
FERNBEDIENUNGS-Einheit (Leiterbahnseite)



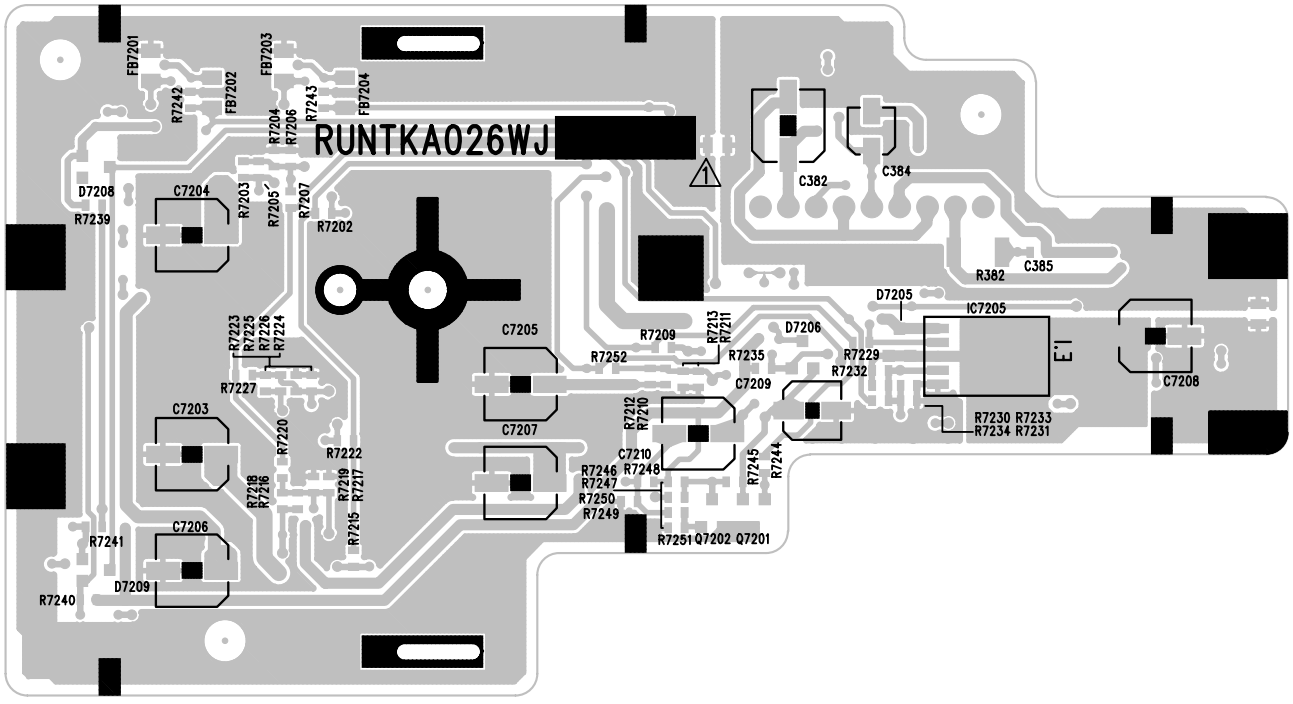
AC INLET Unit (Wiring Side)
AC-EINGANGS-Einheit (Leiterbahnseite)



KEY Unit (Wiring Side)
SCHLÜSELL-Einheit (Leiterbahnseite)



FAN Unit (Side-A)
GEBLÄSE-Einheit (Seite-A)



FAN Unit (Side-B)
GEBLÄSE-Einheit (Seite-B)

	1	2	3	4	5	6

PARTS LIST

PARTS REPLACEMENT

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

in **USA**: Contact your nearest SHARP Parts Distributor.
For location of SHARP Parts Distributor,
Please call Toll-Free; 1-800-BE-SHARP

in **CANADA**: Contact SHARP Electronics of Canada Limited
Phone (416) 890-2100.

★ MARK: SPARE PARTS-DELIVERY SECTION

ERSATZTEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheits-eigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

"WIE MAN ERSATSTEILE BESTELLT"

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.
2. REF. NR.
3. ERSATZTEIL NR.
4. BESCHREIBUNG
5. KODE
6. QUANTITÄT

★ MARKIERUNG : ERSATZTEILE-LIEFERUNG

Ref. No.	Part No.	★	Description	Code

LCD PANELS

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

	RLCDPA020WJZZ	–	LCD Module Unit, Red	—
	RLCDPA021WJZZ	–	LCD Module Unit, Green	—
	RLCDPA022WJZZ	–	LCD Module Unit, Blue	—

NOTE: LCD PANEL SHOULD CORRESPOND BY PRISM UNIT REPLACEMENT IN THE FIELD. (Refer to page 18.)

	CMiR-A004WJ21	J	Prism Unit	

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

	DUNTKB170DE03	–	Input Unit	—
	DUNTKB171FE03	–	Output Unit	—
	DUNTKB172DE03	–	Key Unit	—
	DUNTKB173DE03	–	R/C Receiver Unit	—
	RUNTKA021WJZZ	–	AC Inlet Unit	—
	RUNTKA026WJZZ	–	Fan Unit	—
	RDENCA011WJZZ	–	Power Unit	—
	CPCi-A002CE03	J	PC I/F Unit	CW
	RDENCA012WJZZ	J	Ballast Unit (Unit Replacement Item)	CB

DUNTKB170DE03
INPUT UNIT

INTEGRATED CIRCUITS

IC3001	VHi24LC21//-1Y	J	24LC21T-I/SN	AH
IC3051	VHi24LC21//-1Y	J	24LC21T-I/SN	AH
IC3101	VHiAD8185++-1Y	J	AD8185ARU	AW
IC3102	VHiLM2664++-1Y	J	LM2664M6X	AK
IC3151	RH-iX2242CEZZY	J	SN74LS14NS	AE
IC3152	VHiTC7W125U-1Y	J	TC7W125FU	AF
IC3153	VHiT7WT240U-1Y	J	TC7WT240FU	AF
IC3154	VHiT7WT240U-1Y	J	TC7WT240FU	AF
IC3602	VHiUPD4721G-1Y	J	UPD4721GS-GJG	AN
IC3701	RH-iXA178WJZZY	J	CY7C63413-PVCT	AW

TRANSISTORS

Q3151	VSDTC144EUA-1Y	J	DTC144EUA	AB
Q3701	VSBSS84++++-1Y	J	BSS84++++	AE
Q3702	VSRN1905///-1Y	J	RN1905	AB
Q3703	VSRN1905///-1Y	J	RN1905	AB

DIODES

D401	VHDMA3120WA-1Y	J	Diode	AD
D402	VHDMA3120WA-1Y	J	Diode	AD
D3001	VHDKDS226//-1Y	J	Diode	AB
D3002	VHDKDS226//-1Y	J	Diode	AB
D3004	VHDKDS226//-1Y	J	Diode	AB
D3005	VHDKDS226//-1Y	J	Diode	AB
D3051	VHDKDS226//-1Y	J	Diode	AB
D3052	VHDKDS226//-1Y	J	Diode	AB
D3054	VHDKDS226//-1Y	J	Diode	AB
D3055	VHDKDS226//-1Y	J	Diode	AB
D3102	VHDKDS226//-1Y	J	Diode	AB
D3103	VHDKDS226//-1Y	J	Diode	AB
D3104	VHDKDS226//-1Y	J	Diode	AB
D3105	VHDKDS226//-1Y	J	Diode	AB
D3106	VHDKDS226//-1Y	J	Diode	AB
D3109	VHDKDS226//-1Y	J	Diode	AB
D3110	VHDKDS226//-1Y	J	Diode	AB
D3111	VHDKDS226//-1Y	J	Diode	AB
D3112	VHDKDS226//-1Y	J	Diode	AB
D3113	VHDKDS226//-1Y	J	Diode	AB
D3114	VHDKDS226//-1Y	J	Diode	AB
D3606	VHDMA3120WA-1Y	J	Diode	AD
D3607	VHDMA3120WA-1Y	J	Diode	AD

DUNTKB170DE03
INPUT UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
D3608	VHDDAN202K/-1Y	J	Diode	AB
D3701	VHDMA3120WA-1Y	J	Diode	AD
D3702	VHDMA3120WA-1Y	J	Diode	AD
D3703	VHDMA3120WA-1Y	J	Diode	AD

PACKAGED CIRCUIT

X3701	RFiLZ0003TAZZY	J	Crystal	AD

FILTERS AND COILS

FL402	RFiLN0514CEZZY	J	Noise Filter	AE
FL403	RFiLN0017TAZZY	J	Noise Filter	AC
FL431	RFiLN0017TAZZY	J	Noise Filter	AC
FL3001	RFiLN0003TAZZY	J	Noise Filter	AD
FL3002	RFiLN0003TAZZY	J	Noise Filter	AD
FL3003	RFiLN0003TAZZY	J	Noise Filter	AD
FL3051	RFiLN0003TAZZY	J	Noise Filter	AD
FL3052	RFiLN0003TAZZY	J	Noise Filter	AD
FL3053	RFiLN0003TAZZY	J	Noise Filter	AD
FL3101	RFiLN0003TAZZY	J	Noise Filter	AD
FL3102	RFiLN0003TAZZY	J	Noise Filter	AD
FL3103	RFiLN0003TAZZY	J	Noise Filter	AD
L3001	VP-1M100J1R6NY	J	Peaking 10µH	AB
L3101	VP-1M100J1R6NY	J	Peaking 10µH	AB
L3102	VP-1M100J1R6NY	J	Peaking 10µH	AB
L3103	VP-1M100J1R6NY	J	Peaking 10µH	AB

CAPACITORS

C421	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C422	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C431	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C432	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C441	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C442	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3001	VCEAPF0JW476MY	J	47	6.3V	Electrolytic	AB
C3002	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3003	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C3004	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C3006	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3007	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C3008	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C3009	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C3051	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3052	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C3053	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C3055	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3056	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C3057	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C3058	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C3101	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3102	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3103	VCAAPC1AJ106MY	J	10	10V	Electrolytic	AE
C3104	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C3105	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C3106	VCEAPF1CW226MY	J	22	16V	Electrolytic	AB
C3107	VCEAPF1CW226MY	J	22	16V	Electrolytic	AB
C3108	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3109	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3110	VCE9PF0JW476MY	J	47	6.3V	Elect. (N.P)	AD
C3111	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3112	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3113	VCE9PF0JW476MY	J	47	6.3V	Elect. (N.P)	AD
C3114	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3115	VCE9PF0JW476MY	J	47	6.3V	Elect. (N.P)	AD
C3116	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3117	VCE9PF0JW476MY	J	47	6.3V	Elect. (N.P)	AD
C3118	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3119	VCE9PF0JW476MY	J	47	6.3V	Elect. (N.P)	AD
C3120	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3121	VCE9PF0JW476MY	J	47	6.3V	Elect. (N.P)	AD
C3122	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C3126	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C3151	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3152	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3153	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3154	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3155	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3156	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3602	VCEAPF1HW225MY	J	2.2	50V	Electrolytic	AB
C3603	VCEAPF1HW225MY	J	2.2	50V	Electrolytic	AB
C3604	VCEAPF1HW225MY	J	2.2	50V	Electrolytic	AB
C3605	VCEAPF1HW225MY	J	2.2	50V	Electrolytic	AB
C3606	VCEAPF1HW225MY	J	2.2	50V	Electrolytic	AB
C3607	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3704	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3705	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA

RESISTORS

R402	VRS-TV1JD000JY	J	0	1/16W	Metal Oxide	AA
R403	VRS-TV1JD000JY	J	0	1/16W	Metal Oxide	AA
R404	VRS-TV1JD000JY	J	0	1/16W	Metal Oxide	AA
R407	VRS-TV1JD000JY	J	0	1/16W	Metal Oxide	AA
R408	VRS-TV1JD000JY	J	0	1/16W	Metal Oxide	AA
R409	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R410	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R421	VRS-TV1JD000JY	J	0	1/16W	Metal Oxide	AA
R431	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R432	VRS-TV1JD000JY	J	0	1/16W	Metal Oxide	AA
R441	VRS-TV1JD000JY	J	0	1/16W	Metal Oxide	AA
R3002	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3003	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3004	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3006	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R3007	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3008	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3009	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3010	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3011	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3012	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3013	VRS-CY1JF271JY	J	270	1/16W	Metal Oxide	AA
R3014	VRS-CY1JF271JY	J	270	1/16W	Metal Oxide	AA
R3052	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3053	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3054	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3056	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R3057	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3058	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3059	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3060	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3061	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3062	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3063	VRS-CY1JF271JY	J	270	1/16W	Metal Oxide	AA
R3064	VRS-CY1JF271JY	J	270	1/16W	Metal Oxide	AA
R3103	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3104	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3105	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3106	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3107	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3108	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R3109	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3111	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3113	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3115	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3117	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3119	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3151	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3152	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3155	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3156	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3157	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R3158	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3159	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3160	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3161	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3162	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3163	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3164	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R3165	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3614	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3615	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3616	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R3617	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R3701	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
R3702	VRS-CY1JF224JY	J	220k 1/16W Metal Oxide	AA
R3705	VRS-CY1JF752FY	J	7.5k 1/16W Metal Oxide	AA
R3706	VRS-CY1JF154JY	J	150k 1/16W Metal Oxide	AA
R3714	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3715	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3716	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3717	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3718	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R3719	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3720	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5501	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R5502	VRS-CY1JF823JY	J	82k 1/16W Metal Oxide	AA

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INPUT UNIT(Continued)

MISCELLANEOUS PARTS

FB422	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB423	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB431	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB433	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB434	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB442	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB443	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB3002	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3003	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3004	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3005	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3052	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3053	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3054	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3055	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3101	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3102	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3602	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB3603	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB3609	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB3701	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3702	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3703	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB3705	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB5501	RBLN-0058CEZZY	J	Ferrite Bead	AB
J402	QSOCD0403GEZZ	J	S-Video(INPUT3/4)	AE
J421	QJAKJ0008GEZZ	J	Audio Input1/2 Terminal	AD
J431	QJAKG0064CEZZ	J	Av Input Terminal	AG
J441	QJAKJ0008GEZZ	J	Audio Output Terminal	AD
J3701	QPLGJ0403CEZZ	J	USB Port	AF
J5501	QJAKJ0007TAZZ	J	Wired Remote Control Input Terminal	AC
SC3001	QSOCN0448FJZZ	J	Input1 Terminal	AM
SC3051	QSOCN0448FJZZ	J	Input2 Terminal	AM
SC3101	QSOCN0344FJZZ	J	Output(Input1/2) Terminal	AM
SC3102	QCNCW3026TAZZ	J	Socket, 30-pin	AF
SC3601	QSOCD0901CEZZ	J	RS-232C Terminal	AH
SC3602	QCNCW2026TAZZ	J	Socket, 20-pin	AE
	PSLDMA009WJFW	J	Shield	AH
	NSFTZ0134CEFW	J	Shaft Screw, x1	AD
	XBPSD30P06R00	J	Screw, x5	AB

Ref. No.	Part No.	★	Description	Code
IC302	VHiLV4053AT-1Y	J	SN74LV4053APWR	AE
IC303	VHiBA3530FS-1Y	J	BA3530FS-E1	AM
IC1101	VHiCXA7000R-1Q	J	CXA7000R	BB
IC1102	VHiCXA7000R-1Q	J	CXA7000R	BB
IC1103	VHiNJM2902V-1Y	J	NJM2902V	AD
IC1104	VHiM62392FP-1Y	J	M62392FP	AM
IC1105	VHiNJM2904V-1Y	J	NJM2904V	AF
IC1201	VHiCXA7000R-1Q	J	CXA7000R	BB
IC1202	VHiCXA7000R-1Q	J	CXA7000R	BB
IC1301	VHiCXA7000R-1Q	J	CXA7000R	BB
IC1302	VHiCXA7000R-1Q	J	CXA7000R	BB
IC2401	VHiSM5300CS-1Y	J	SM5300CS-G	AR
IC2402	VHiLMV7239+-1Y	J	LMV7239M5X	AH
IC2403	VHiLMV7239+-1Y	J	LMV7239M5X	AH
IC2404	VHiLV125AT+-1Y	J	SN74LV125APWR	AE
IC2601	VHiSNAT541P-1Y	J	SN74AHCT541PWR	AF
IC2602	RH-iXA176WJZZQ	J	IC	AQ
IC2603	VHiBD4729G+-1Y	J	BD4729G-TR	AD
IC2604	VHiSN2G32CT-1Y	J	SN74AHC2G32HDC	AE
IC2605	VHiHN24256T-1Y	J	HN58X24256TI	AT
IC2606	VHiSN2G53CT-1Y	J	SN74AHC2G53HDC	AE
IC2701	VHiM62320FP-1Y	J	M62320FP	AH
IC2702	VHiM62320FP-1Y	J	M62320FP	AH
IC2703	VHiSNT1G08C-1Y	J	SN74AHCT1G08DC	AD
IC2751	VHiM62392FP-1Y	J	M62392FP	AM
IC2752	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC4502	VHiNJM2244M-1Y	J	NJM2244M	AG
IC4505	VHiBA7655AF-1Y	J	BA7655AF	AG
IC4506	VHiNJM2060V-1Y	J	NJM2060V	AF
IC4507	VHiTHC4538T-1Y	J	TC74HC4538AFT	AL
IC4508	VHiSNT1G08C-1Y	J	SN74AHCT1G08DC	AD
IC4510	VHiSNT1G08C-1Y	J	SN74AHCT1G08DC	AD
IC4511	VHiNJM2244M-1Y	J	NJM2244M	AG
IC7001	VHiPQ1R33//-1Y	J	PQ1R33	AE
IC7002	VHiPQ05DZ1U-1Y	J	PQ05DZ1U	AG
IC7003	VHiPQ05DZ1U-1Y	J	PQ05DZ1U	AG
IC7004	VHiPQ05DZ1U-1Y	J	PQ05DZ1U	AG
IC7005	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC7006	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC7007	VHiHCT541AF-1Y	J	TC74HCT541AF	AF
IC7008	VHiHCT541AF-1Y	J	TC74HCT541AF	AF
IC7010	VHi74F86NSR-1Y	J	SN74F86NSR	AD

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OUTPUT UNIT

INTEGRATED CIRCUITS

TRANSISTORS

Q301	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q302	VS2SD1760QA-1Y	J	2SD1760QA	AD
Q303	VS2SD1760QA-1Y	J	2SD1760QA	AD
Q304	VSHN2C01FU/-1Y	J	HN2C01FU	AC
Q305	VSHN2C01FU/-1Y	J	HN2C01FU	AC
Q306	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q307	VSDTC144EUA-1Y	J	DTC144EUA	AB
Q308	VSDTC144EUA-1Y	J	DTC144EUA	AB
Q1101	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1102	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1103	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1104	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1105	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1106	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1107	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1108	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1109	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1201	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1202	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1203	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1204	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1205	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1206	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1207	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1208	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1301	VS2SC3928AR-1Y	J	2SC3928AR	AB

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OUTPUT UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
Q1302	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1303	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1304	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1305	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1306	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1307	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1308	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q2401	VS2SC2735//-1Y	J	2SC2735	AB
Q2402	VS2SC2735//-1Y	J	2SC2735	AB
Q2403	VS2SC2735//-1Y	J	2SC2735	AB
Q2415	VSHN1B04FU/-1Y	J	HN1B04FU	AC
Q2416	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q2417	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q2418	VSDTC114EUA-1Y	J	DTC144EUA	AB
Q2419	VSHN1C01FU/-1Y	J	HN1C01FU	AC
Q2420	VSHN1C01FU/-1Y	J	HN1C01FU	AC
Q2701	VSBSN20////-1Y	J	BSN20	AD
Q2702	VSHN1K03FU+-1Y	J	HN1K03FU+	AD
Q2751	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q2752	VSHN2C01FU/-1Y	J	HN2C01FU	AC
Q2753	VSDTA114EUA-1Y	J	DTA114EUA	AB
Q2754	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q2755	VSDTC144EUA-1Y	J	DTC144EUA	AB
Q2756	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q4501	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q4502	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q4504	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q4505	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q4506	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q4511	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q4512	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q4513	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q4514	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q4515	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q7001	VS2SC2412K/-1Y	J	2SC2412K	AA
Q7002	VSHN2C01FU/-1Y	J	HN2C01FU	AC
Q7003	VSDTC114EUA-1Y	J	DTC144EUA	AB
Q7004	VSDTC114EUA-1Y	J	DTC144EUA	AB
Q7005	VSDTC114EUA-1Y	J	DTC144EUA	AB

DIODES

D2751	VHDDAN202K/-1Y	J	Diode	AB
D2752	VHDDAN202K/-1Y	J	Diode	AB
D4501	RH-EX0519CEZZY	J	Zener Diode	AB
D4502	RH-EX0519CEZZY	J	Zener Diode	AB
D4503	VHDMA152WA/-1Y	J	Diode	AB
D4504	VHDMA152WA/-1Y	J	Diode	AB
D7001	VHDDAN202K/-1Y	J	Diode	AB
D7002	VHDDAN202K/-1Y	J	Diode	AB
D7003	VHDDAN202K/-1Y	J	Diode	AB
D7004	VHDDAN202K/-1Y	J	Diode	AB
D7005	VHDDAN202K/-1Y	J	Diode	AB

PACKAGED CIRCUIT

X2601	RCRSB0286CEZZY	J	Crystal	AH

COILS AND FILTERS

L1101	VP-1M100J1R6NY	J	Peaking 10µH	AB
L1102	VP-1M100J1R6NY	J	Peaking 10µH	AB
L1201	VP-1M100J1R6NY	J	Peaking 10µH	AB
L1202	VP-1M100J1R6NY	J	Peaking 10µH	AB
L1301	VP-1M100J1R6NY	J	Peaking 10µH	AB
L1302	VP-1M100J1R6NY	J	Peaking 10µH	AB
L4501	VP-1M220J2R9NY	J	Peaking 22µH	AB
L4504	VP-1M220J2R9NY	J	Peaking 22µH	AB

CAPACITORS

C301	VCEAPF1CW106MY	J	10	16V	Electrolytic		AB
C302	RC-KZA041WJZZY	J	Miniature Magnetic				AC
C303	RC-KZA041WJZZY	J	Miniature Magnetic				AC
C305	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C309	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C310	VCEAPF1CW106MY	J	10	16V	Electrolytic		AB
C311	VCEAPF1CW106MY	J	10	16V	Electrolytic		AB
C312	VCEAPF1CW106MY	J	10	16V	Electrolytic		AB
C313	VCEAPF1CW106MY	J	10	16V	Electrolytic		AB
C314	VCEAPF1CW106MY	J	10	16V	Electrolytic		AB
C315	VCE9PF1HW105MY	J	1	50V	Elect. (N.P)		AC
C316	VCEAPF0JW107MY	J	100	6.3V	Electrolytic		AC
C317	VCE9PF1HW105MY	J	1	50V	Elect. (N.P)		AC
C318	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C319	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C320	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C321	VCEAPF0JW107MY	J	100	6.3V	Electrolytic		AC
C322	VCEAPF1CW106MY	J	10	16V	Electrolytic		AB
C323	VCEAPF1CW106MY	J	10	16V	Electrolytic		AB
C324	VCCCCY1HH102JY	J	1000p	50V	Ceramic		AB
C1101	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1102	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1103	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1104	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1105	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1106	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1107	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1108	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1109	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C1110	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1112	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1113	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1114	RC-KZ0416CEZZY	J	Miniature Magnetic				AE
C1115	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1116	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1117	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1118	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1119	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1120	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1121	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C1122	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1123	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1124	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1125	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1126	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1127	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1128	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1130	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1131	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1140	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1141	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1142	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1143	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1144	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C1145	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C1146	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C1147	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C1201	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1202	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1203	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1204	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1205	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1206	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1207	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1208	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1209	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1210	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C1211	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1212	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1213	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1214	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1215	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1216	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1217	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1219	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1220	VCKYCY1AF105ZY	J	1	10V	Ceramic		AC
C1222	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE
C1223	VCKYCY1EF104ZY	J	0.1	25V	Ceramic		AA
C1224	RC-KZ0416CEZZY	J	10	25V	Ceramic		AE

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OUTPUT UNIT(Continued)

Ref. No.	Part No.	★	Description			Code
C1225	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1226	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C1227	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1228	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1240	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1241	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1242	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1243	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1301	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1302	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1303	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C1304	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1305	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1306	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C1307	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1308	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C1309	VCKYCY1AF105ZY	J	1	10V	Ceramic	AC
C1310	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1311	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1312	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C1313	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1314	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1315	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C1316	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1317	VCKYCY1AF105ZY	J	1	10V	Ceramic	AC
C1318	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C1319	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1320	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C1321	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1322	RC-KZ0416CEZZY	J	10	25V	Ceramic	AE
C1323	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1325	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1326	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1327	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1340	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1341	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1342	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1343	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2401	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2402	VCE9PF1HW105MY	J	1	50V	Elect. (N.P)	AC
C2403	VCE9PF1HW105MY	J	1	50V	Elect. (N.P)	AC
C2404	VCE9PF1HW105MY	J	1	50V	Elect. (N.P)	AC
C2407	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2408	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2409	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C2410	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2420	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2421	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C2422	VCE9PF1HW474MY	J	0.47	50V	Elect. (N.P)	AD
C2423	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C2424	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C2425	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2426	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C2427	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2428	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C2441	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C2442	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2443	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2445	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C2446	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C2447	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C2448	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2601	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2604	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2605	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2606	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2607	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2608	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2609	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2610	VCEAPF0JW476MY	J	47	6.3V	Electrolytic	AB
C2611	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2612	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2613	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2614	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C2615	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C2616	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2617	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2618	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2701	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C2702	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2703	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2751	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2752	VCEAPF1CW226MY	J	22	16V	Electrolytic	AB
C2757	VCEAPF1CW476MY	J	47	16V	Electrolytic	AC
C2759	VCEAPF1CW476MY	J	47	16V	Electrolytic	AC
C2760	VCEAPF1HW225MY	J	2.2	50V	Electrolytic	AB
C4501	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C4502	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4503	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4504	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C4505	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C4506	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4523	VCCCCY1HH471JY	J	470p	50V	Ceramic	AA
C4524	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4525	VCKYTV1CB334KY	J	0.33	16V	Ceramic	AC
C4546	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4547	VCCCCY1HH270JY	J	27p	50V	Ceramic	AA
C4548	VCCCCY1HH120JY	J	12p	50V	Ceramic	AA
C4549	VCCCCY1HH100DY	J	10p	50V	Ceramic	AA
C4551	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4552	VCEAPF0JW476MY	J	47	6.3V	Electrolytic	AB
C4554	VCE9PF1CW106MY	J	10	16V	Elect. (N.P)	AC
C4555	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4556	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C4557	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4558	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4559	VCEAPF1HW225MY	J	2.2	50V	Electrolytic	AB
C4560	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C4561	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C4562	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C4563	VCE9PF1HW105MY	J	1	50V	Elect. (N.P)	AC
C4564	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C4565	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4566	VCCCCY1HH471JY	J	470p	50V	Ceramic	AA
C4567	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C4568	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4569	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4570	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C4571	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C4572	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4573	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4574	VCE9PF1CW106MY	J	10	16V	Elect. (N.P)	AC
C4575	VCE9PF1CW106MY	J	10	16V	Elect. (N.P)	AC
C4576	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7001	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7002	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7003	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7004	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7005	VCEAPF1CW476MY	J	47	16V	Electrolytic	AC
C7006	VCEAPF0JW107MY	J	100	6.3V	Electrolytic	AC
C7007	VCEAPF0JW107MY	J	100	6.3V	Electrolytic	AC
C7008	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7009	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C7011	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C7012	VCEAPF0JW107MY	J	100	6.3V	Electrolytic	AC
C7013	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7014	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7015	VCEAPF1EW226MY	J	22	25V	Electrolytic	AD
C7016	VCEAPF1EW226MY	J	22	25V	Electrolytic	AD
C7017	VCEAPF1EW226MY	J	22	25V	Electrolytic	AD
C7018	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7019	VCEAPF1EW226MY	J	22	25V	Electrolytic	AD
C7020	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7025	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7036	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7037	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA

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OUTPUT UNIT(Continued)

Ref. No.	Part No.	★			Description	Code
C7038	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7039	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7041	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7042	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7043	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7044	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7045	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7046	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7047	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7048	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7049	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7050	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7051	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7052	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7053	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7054	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7055	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7056	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7057	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7058	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7059	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7060	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7061	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7062	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7063	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7064	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7065	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7066	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7067	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7068	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7069	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C7070	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★			Description	Code
R301	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R302	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R303	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R304	VRS-CE3AF1R0JY	J	1	1W	Metal Oxide	AC
R305	VRS-TX2HF2R2JY	J	2.2	1/2W	Metal Oxide	AB
R306	VRS-TX2HF2R2JY	J	2.2	1/2W	Metal Oxide	AB
R307	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R308	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R310	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R311	VRS-CY1JF432JY	J	4.3k	1/16W	Metal Oxide	AA
R313	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R314	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R315	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R316	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R317	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R318	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R319	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R320	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R321	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R322	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R323	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R324	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R325	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R326	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R327	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R328	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R329	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R330	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R331	VRS-CY1JF224JY	J	220k	1/16W	Metal Oxide	AA
R332	VRS-CY1JF224JY	J	220k	1/16W	Metal Oxide	AA
R335	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R336	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R337	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R338	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R339	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R340	VRS-CY1JF224JY	J	220k	1/16W	Metal Oxide	AA
R342	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R343	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R344	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R345	VRS-CY1JF224JY	J	220k	1/16W	Metal Oxide	AA
R347	VRS-CY1JF154JY	J	150k	1/16W	Metal Oxide	AA
R348	VRS-CY1JF154JY	J	150k	1/16W	Metal Oxide	AA
R349	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R350	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R351	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R352	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R353	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R354	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R355	VRS-CY1JF681JY	J	680	1/16W	Metal Oxide	AA
R356	VRS-CY1JF681JY	J	680	1/16W	Metal Oxide	AA
R357	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R358	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R1101	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1102	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1103	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R1104	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R1105	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1107	VRS-CY1JF680JY	J	68	1/16W	Metal Oxide	AA
R1108	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1109	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1110	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R1111	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R1112	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1113	VRS-CY1JF680JY	J	68	1/16W	Metal Oxide	AA
R1114	VRS-CY1JF270JY	J	27	1/16W	Metal Oxide	AA
R1115	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R1116	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R1117	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1119	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1120	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1121	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1122	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1123	VRS-CY1JF203FY	J	20k	1/16W	Metal Oxide	AA
R1124	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1125	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1126	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1127	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1128	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1129	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1130	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R1131	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1132	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R1133	VRS-CY1JF3R3JY	J	3.3	1/16W	Metal Oxide	AA
R1134	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R1135	VRS-CY1JF3R3JY	J	3.3	1/16W	Metal Oxide	AA
R1136	VRS-CY1JF3R3JY	J	3.3	1/16W	Metal Oxide	AA
R1137	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1138	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R1139	VRS-CY1JF3R3JY	J	3.3	1/16W	Metal Oxide	AA
R1140	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R1141	VRS-CY1JF3R3JY	J	3.3	1/16W	Metal Oxide	AA
R1142	VRS-CY1JF3R3JY	J	3.3	1/16W	Metal Oxide	AA
R1144	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1145	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R1146	VRS-CA1JF332JY	J	3.3k	1/16W	Metal Oxide	AB
R1147	VRS-CY1JF203FY	J	20k	1/16W	Metal Oxide	AA
R1148	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1149	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1150	VRS-CY1JF203FY	J	20k	1/16W	Metal Oxide	AA
R1151	VRS-CY1JF203FY	J	20k	1/16W	Metal Oxide	AA
R1152	VRS-CY1JF153FY	J	15k	1/16W	Metal Oxide	AA
R1153	VRS-CY1JF153FY	J	15k	1/16W	Metal Oxide	AA
R1154	VRS-CY1JF153FY	J	15k	1/16W	Metal Oxide	AA
R1155	VRS-CY1JF682FY	J	6.8k	1/16W	Metal Oxide	AA
R1156	VRS-CY1JF682FY	J	6.8k	1/16W	Metal Oxide	AA
R1157	VRS-CY1JF682FY	J	6.8k	1/16W	Metal Oxide	AA
R1158	VRS-CY1JF562FY	J	5.6k	1/16W	Metal Oxide	AA
R1159	VRS-CY1JF562FY	J	5.6k	1/16W	Metal Oxide	AA
R1160	VRS-CY1JF562FY	J	5.6k	1/16W	Metal Oxide	AA
R1161	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1162	VRS-CY1JF682FY	J	6.8k	1/16W	Metal Oxide	AA
R1164	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA

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OUTPUT UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R1165	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1166	VRS-CY1JF132FY	J	1.3k 1/16W Metal Oxide	AA
R1167	VRS-CY1JF152FY	J	1.5k 1/16W Metal Oxide	AA
R1168	VRS-CY1JF132FY	J	1.3k 1/16W Metal Oxide	AA
R1169	VRS-CY1JF132FY	J	1.3k 1/16W Metal Oxide	AA
R1170	VRS-CY1JF152FY	J	1.5k 1/16W Metal Oxide	AA
R1171	VRS-CY1JF152FY	J	1.5k 1/16W Metal Oxide	AA
R1172	VRS-CY1JF102FY	J	1k 1/16W Metal Oxide	AA
R1173	VRS-CY1JF102FY	J	1k 1/16W Metal Oxide	AA
R1174	VRS-CY1JF102FY	J	1k 1/16W Metal Oxide	AA
R1189	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1190	VRS-CY1JF222FY	J	2.2k 1/16W Metal Oxide	AA
R1191	VRS-CY1JF332FY	J	3.3k 1/16W Metal Oxide	AA
R1192	VRS-CY1JF222FY	J	2.2k 1/16W Metal Oxide	AA
R1193	VRS-CY1JF332FY	J	3.3k 1/16W Metal Oxide	AA
R1194	VRS-CY1JF222FY	J	2.2k 1/16W Metal Oxide	AA
R1195	VRS-CY1JF332FY	J	3.3k 1/16W Metal Oxide	AA
R1196	VRS-CY1JF203FY	J	20k 1/16W Metal Oxide	AA
R1197	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1198	VRS-CY1JF682FY	J	6.8k 1/16W Metal Oxide	AA
R1199	VRS-CY1JF393FY	J	39k 1/16W Metal Oxide	AA
R1201	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1202	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1203	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1204	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1205	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1207	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1208	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1209	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1210	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1211	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1212	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1213	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1214	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1215	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1217	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1218	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1219	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1220	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1222	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1223	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1225	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1226	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R1227	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R1228	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1229	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1230	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1232	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1233	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1234	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1235	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R1236	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R1237	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1301	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1302	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1303	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1304	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1305	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1307	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1308	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1309	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1310	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1311	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1313	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1314	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1315	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1316	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1318	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1319	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1320	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1321	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1323	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1324	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R1325	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1326	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R1327	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R1328	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1329	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1330	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1332	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1333	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R1334	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R1335	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1336	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1337	VRS-CY1JF3R3JY	J	3.3 1/16W Metal Oxide	AA
R1401	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1402	VRS-CY1JF393FY	J	39k 1/16W Metal Oxide	AA
R1403	VRS-CY1JF682FY	J	6.8k 1/16W Metal Oxide	AA
R1404	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1405	VRS-CY1JF103FY	J	10k 1/16W Metal Oxide	AA
R1406	VRS-CY1JF203FY	J	20k 1/16W Metal Oxide	AA
R1407	VRS-CY1JF393FY	J	39k 1/16W Metal Oxide	AA
R2410	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2411	VRS-TV1JD680JY	J	68 1/16W Metal Oxide	AA
R2412	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2413	VRS-TV1JD680JY	J	68 1/16W Metal Oxide	AA
R2415	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2416	VRS-TV1JD680JY	J	68 1/16W Metal Oxide	AA
R2418	VRS-CY1JF821JY	J	820 1/16W Metal Oxide	AA
R2440	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2441	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2442	VRS-CY1JF123JY	J	12k 1/16W Metal Oxide	AA
R2443	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R2444	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R2445	VRS-CY1JF333JY	J	33k 1/16W Metal Oxide	AA
R2446	VRS-CY1JF821JY	J	820 1/16W Metal Oxide	AA
R2447	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R2448	VRS-CY1JF392FY	J	3.9k 1/16W Metal Oxide	AA
R2449	VRS-CY1JF151FY	J	150 1/16W Metal Oxide	AA
R2450	VRS-CY1JF112FY	J	1.1k 1/16W Metal Oxide	AA
R2451	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R2452	VRS-CY1JF183JY	J	18k 1/16W Metal Oxide	AA
R2456	VRS-CY1JF183JY	J	18k 1/16W Metal Oxide	AA
R2457	VRS-CY1JF183JY	J	18k 1/16W Metal Oxide	AA
R2458	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2459	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2460	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2461	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2462	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2463	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2464	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2465	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2466	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2467	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2602	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R2603	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2604	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2605	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R2609	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R2611	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2612	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2614	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R2615	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2616	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R2618	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R2620	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2621	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R2622	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R2623	VRS-CY1JF182JY	J	1.8k 1/16W Metal Oxide	AA
R2626	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2635	VRS-CY1JF103FY	J	10k 1/16W Metal Oxide	AA
R2636	VRS-CY1JF103FY	J	10k 1/16W Metal Oxide	AA
R2637	VRS-CY1JF103FY	J	10k 1/16W Metal Oxide	AA
R2638	VRS-CY1JF103FY	J	10k 1/16W Metal Oxide	AA
R2639	VRS-CY1JF103FY	J	10k 1/16W Metal Oxide	AA
R2640	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA

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OUTPUT UNIT(Continued)

Ref. No.	Part No.	★			Description	Code
R2641	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R2701	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2703	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2704	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2705	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2706	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2707	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2708	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2711	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2712	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2713	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2714	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2715	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R2716	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2718	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2721	VRS-CY1JF473FY	J	47k	1/16W	Metal Oxide	AA
R2722	VRS-CY1JF473FY	J	47k	1/16W	Metal Oxide	AA
R2723	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2724	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R2725	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2727	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2751	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2753	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2754	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R2755	VRS-CY1JF332FY	J	3.3k	1/16W	Metal Oxide	AA
R2756	VRS-CY1JF224FY	J	220k	1/16W	Metal Oxide	AA
R2757	VRS-CY1JF333FY	J	33k	1/16W	Metal Oxide	AA
R2758	VRS-CE3AF1R0JY	J	1	1W	Metal Oxide	AC
R2759	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R2760	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2761	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R2762	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R2763	VRS-CY1JF393JY	J	39k	1/16W	Metal Oxide	AA
R2767	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2770	VRS-CY1JF182JY	J	1.8k	1/16W	Metal Oxide	AA
R2771	VRS-CY1JF392JY	J	3.9k	1/16W	Metal Oxide	AA
R2772	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2773	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2774	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R4501	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R4502	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R4503	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R4504	VRS-CY1JF470JY	J	47	1/16W	Metal Oxide	AA
R4505	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R4506	VRS-CY1JF470JY	J	47	1/16W	Metal Oxide	AA
R4507	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R4518	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R4519	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R4520	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R4521	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R4522	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R4523	VRS-CY1JF224JY	J	220k	1/16W	Metal Oxide	AA
R4524	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R4542	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R4543	VRS-CY1JF911JY	J	910	1/16W	Metal Oxide	AB
R4544	VRS-CY1JF182JY	J	1.8k	1/16W	Metal Oxide	AA
R4545	VRS-CY1JF182FY	J	1.8k	1/16W	Metal Oxide	AA
R4546	VRS-CY1JF221FY	J	220	1/16W	Metal Oxide	AA
R4547	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R4548	VRS-CY1JF273JY	J	27k	1/16W	Metal Oxide	AA
R4549	VRS-CY1JF183JY	J	18k	1/16W	Metal Oxide	AA
R4550	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R4551	VRS-TV1JD000JY	J	0	1/16W	Metal Oxide	AA
R4553	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R4554	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R4555	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R4556	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R4557	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R4558	VRS-CY1JF393JY	J	39k	1/16W	Metal Oxide	AA
R4559	VRS-CY1JF393JY	J	39k	1/16W	Metal Oxide	AA
R4560	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R4561	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R4562	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R4563	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R4564	VRS-CY1JF393JY	J	39k	1/16W	Metal Oxide	AA
R4565	VRS-CY1JF274JY	J	270k	1/16W	Metal Oxide	AA
R4566	VRS-CY1JF683JY	J	68k	1/16W	Metal Oxide	AA
R4567	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R4568	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R4569	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R4570	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R4571	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R4572	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R4574	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R4575	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R4576	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R4577	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R4578	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R4580	VRS-CY1JF394JY	J	390k	1/16W	Metal Oxide	AA
R4581	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R4585	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R4586	VRS-CY1JF821JY	J	820	1/16W	Metal Oxide	AA
R4587	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R4590	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R4592	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R4593	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R4594	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R7001	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7002	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide	AB
R7004	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R7005	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R7009	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R7010	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide	AB
R7011	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7012	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide	AB
R7013	VRS-CY1JF683FY	J	68k	1/16W	Metal Oxide	AA
R7014	VRS-CY1JF822FY	J	8.2k	1/16W	Metal Oxide	AA
R7015	VRS-CY1JF152FY	J	1.5k	1/16W	Metal Oxide	AA
R7016	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7018	VRS-CY1JF683FY	J	68k	1/16W	Metal Oxide	AA
R7019	VRS-CY1JF682FY	J	6.8k	1/16W	Metal Oxide	AA
R7020	VRS-CY1JF152FY	J	1.5k	1/16W	Metal Oxide	AA
R7021	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7022	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7023	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7024	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7026	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7027	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7028	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7029	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7030	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7031	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7032	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7033	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7034	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7035	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R7040	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7041	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R7042	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R7043	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R7044	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R7045	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R7046	VRS-CY1JF121JY	J	120	1/16W	Metal Oxide	AA
R7047	VRS-CY1JF121JY	J	120	1/16W	Metal Oxide	AA
R7048	VRS-TV1JD121JY	J	120	1/16W	Metal Oxide	AA
R7049	VRS-TV1JD121JY	J	120	1/16W	Metal Oxide	AA
R7050	VRN-CY1JF103DY	J	10k	1/16W	Metal Film	AA
R7054	VRN-CY1JF103DY	J	10k	1/16W	Metal Film	AA
R7058	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7061	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA
R7062	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R7063	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R7064	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA
R7065	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA
R7066	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA
R7067	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

DUNTKB171FE03
OUTPUT UNIT(Continued)

R7068	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide		AA
R7069	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide		AA
R7070	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide		AA
R7071	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide		AA
R7083	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide		AB
R7085	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide		AA

SWITCH

S2601	QSW-KA001WJZZY	J	Key Switch	AD

MISCELLANEOUS PARTS

FB301	RBLN-0064TAZZY	J	Ferrite Bead	AB
FB302	RBLN-0064TAZZY	J	Ferrite Bead	AB
FB1101	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1102	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1104	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1105	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1106	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1201	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1202	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1204	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1205	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1206	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1301	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1302	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1304	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1305	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB1306	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB2401	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB2751	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB2753	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB4503	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB7001	RBLN-0065TAZZY	J	Ferrite Bead	AA
FB7002	RBLN-0065TAZZY	J	Ferrite Bead	AA
FB7003	RBLN-0065TAZZY	J	Ferrite Bead	AA
FB7004	RBLN-0065TAZZY	J	Ferrite Bead	AA
P301	QPLGN0474TAZZY	J	Plug, 4-pin(SO1)	AD
P1301	QPLGN0463TAZZY	J	Plug, 4-pin	AC
P2601	QPLGN1363TAZZY	J	Plug, 13-pin(KY1)	AD
P2602	QPLGN0363TAZZY	J	Plug, 3-pin(RC)	AC
P2603	QPLGN0198FJZZY	J	Plug, 3-pin(KY3)	AD
P2751	QPLGN1174TAZZY	J	Plug, 11-pin(EB1)	AE
P2752	QPLGN0364TAZZY	J	Plug, 3-pin(FD)	AC
P3102	QCNCM3021TAZZ	J	Plug, 30-pin(IA)	AL
P3602	QCNCM2021TAZZ	J	Plug, 20-pin(IB)	AH
P7001	QPLGNA008WJZZ	J	Plug, 24-pin(EA)	AD
P7002	QPLGN0264TAZZY	J	Plug, 2-pin(L1)	AC
P7003	QPLGN0264TAZZY	J	Plug, 2-pin(L2)	AC
P7004	QPLGN0264TAZZY	J	Plug, 2-pin(L3)	AC
P7005	QLUGHA001WJZZY	J	Lug	AD
P8001	QCNCMA019WJZZY	J	Plug, 80-pin(PC0)	AH
P8002	QCNCMA019WJZZY	J	Plug, 80-pin(PC1)	AH
SC1101	QSOCN3271TAZZY	J	Socket, 32-pin(RP)	AE
SC1201	QSOCN3271TAZZY	J	Socket, 32-pin(GP)	AE
SC1301	QSOCN3271TAZZY	J	Socket, 32-pin(BP)	AE
TP1101	QLUGP0110TAFWY	J	Lug	AB
TP1201	QLUGP0110TAFWY	J	Lug	AB
TP1301	QLUGP0110TAFWY	J	Lug	AB
TP4501	QLUGP0110TAFWY	J	Lug	AB
TP4502	QLUGP0110TAFWY	J	Lug	AB
	GCOVHA014WJKZ	J	Cover	AD
	LANGTA005WJFW	J	Attachment Angle, x2	AE
	LANGTA006WJFW	J	Attachment Angle, x1	AG
	XBPSD30P06R00	J	Screw, x3	AB

Ref. No.	Part No.	★	Description	Code

DUNTKB172DE03
KEY UNIT

TRANSISTORS

Q2201	VSDTC144EUA-1Y	J	DTC144EUA	AB
Q2202	VSDTC144EUA-1Y	J	DTC144EUA	AB
Q2203	VSDTC144EUA-1Y	J	DTC144EUA	AB
Q2204	VSDTC144EUA-1Y	J	DTC144EUA	AB
Q2205	VSDTC144EUA-1Y	J	DTC144EUA	AB

DIODES

D2201	RH-PX0210TAZZY	J	Power Indicator	AC
D2202	RH-PX0210TAZZY	J	Lamp Repalcement Indicator	AC
D2203	RH-PX0210TAZZY	J	Temperature Warning Indicator	AC

CAPACITORS

C2201	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2202	VCKYTV1EF104ZY	J	0.1	25V	Ceramic	AB

RESISTORS

R2201	VRS-CY1JF751FY	J	750	1/16W	Metal Oxide	AA
R2208	VRS-CY1JF751FY	J	750	1/16W	Metal Oxide	AA
R2210	VRS-CY1JF751FY	J	750	1/16W	Metal Oxide	AA
R2211	VRS-CY1JF751FY	J	750	1/16W	Metal Oxide	AA
R2213	VRS-TW2ED471JY	J	470	1/4W	Metal Oxide	AA
R2214	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R2215	VRS-TW2ED471JY	J	470	1/4W	Metal Oxide	AA
R2216	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R2217	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R2218	VRS-CY1JF272FY	J	2.7k	1/16W	Metal Oxide	AA
R2219	VRS-CY1JF272FY	J	2.7k	1/16W	Metal Oxide	AA
R2220	VRS-CY1JF272FY	J	2.7k	1/16W	Metal Oxide	AA
R2221	VRS-CY1JF472FY	J	4.7k	1/16W	Metal Oxide	AA
R2222	VRS-CY1JF472FY	J	4.7k	1/16W	Metal Oxide	AA
R2223	VRS-CY1JF472FY	J	4.7k	1/16W	Metal Oxide	AA
R2224	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R2225	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA

SWITCHES

S2201	QSW-KA001WJZZY	J	Power(ON)	AD
S2204	QSW-KA001WJZZY	J	Menu	AD
S2205	QSW-KA001WJZZY	J	Right(Cursor)	AD
S2206	QSW-KA001WJZZY	J	Auto Sync	AD
S2207	QSW-KA001WJZZY	J	Down(Cursor)	AD
S2208	QSW-KA001WJZZY	J	Enter	AD
S2209	QSW-KA001WJZZY	J	Key Stone	AD
S2210	QSW-KA001WJZZY	J	Undo	AD
S2211	QSW-KA001WJZZY	J	Left(Cursor)	AD
S2212	QSW-KA001WJZZY	J	Up(Cursor)	AD
S2213	QSW-KA001WJZZY	J	Power(OFF)	AD
S2214	QSW-KA001WJZZY	J	Input	AD

MISCELLANEOUS PARTS

P2201	QPLGN1363TAZZY	J	Plug, 13-pin(KYO)	AD
P2203	QPLGN0364TAZZY	J	Plug, 3-pin(KY3)	AC
	QCNW-A496WJZZ	J	Connecting Cord	AG
	QCNW-A899WJZZ	J	Connecting Cord	AD

Ref. No.	Part No.	★	Description	Code

DUNTKB173DE03
R/C RECEIVER UNIT

CAPACITORS

C5591	VCEAPF0JW107MY	J	100	6.3V	Electrolytic	AC
C5592	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA

RESISTORS

R5591	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R5592	VRS-CY1JF220JY	J	22	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

P5591	QPLGN0363TAZZY	J	Plug, 3-pin(RC)	AC
RMC5591	RRMCU0239CEZZ	J	R/C Receiver	AG
	PSLDC3117CEFW	J	Shield	AD
	QCNW-A495WJZZ	J	Connecting Cord	AD

Ref. No.	Part No.	★	Description	Code

RUNTKA021WJZZ
AC INLET UNIT

DIODES

D701	95KUBA0005KZ	J	Diode	AB
⚠ Z701	95KUER0002ZZ	J	Varistor	AD

COILS

⚠ L701	95KUKZ1138ZZ	J	Inductor	AL
⚠ L702	95KUKZ1138ZZ	J	Inductor	AL

CAPACITORS

⚠ C701	95KUGFM474KR	J	0.47	275V	Film	AG
⚠ C702	95KUGFM474KR	J	0.47	275V	Film	AG
⚠ C703	95KUGZ1016ZZ	J	4700p		Ceramic	AD
⚠ C704	95KUGZ1016ZZ	J	4700p		Ceramic	AD
⚠ C758	95KUGZ1016ZZ	J	4700p		Ceramic	AD
⚠ C759	95KUGZ1016ZZ	J	4700p		Ceramic	AD

RESISTORS

⚠ R701	95KUEEC105CH	J	470k	1/2W	Metal Oxide	AB
⚠ R702	95KUEBZ3R9AD	J	3.9	2.4W	Fuse Resistor	AL

MISCELLANEOUS PARTS

RL701	95KPHZ0205ZZ	J	Relay	AL
MT701	95KLRZ6866ZQ	J	Angle	AL
MD702	95KGZZ5491ZZ	J	Shield	AE
SC701	95KRAA3060AZ	J	Socket	AB
SC702	95KRAB3060AB	J	Socket	AA
SC703	95KRAZ4141ZT	J	Socket	AC
⚠ F701	95KPJCTP1002	J	Fuse, 10A/250V	AF
CN701	95KPZZ1018ZZ	J	Inlet	AP
CN702	95KPKZ1135ZZ	J	Connector, 3-pin	AD
CN703	95KPKZ0741ZZ	J	Connector, 2-pin	AB
CN709	95KEDB7717ZZ	J	Connector	AE

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INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC381	VHiTDA7056A-1	J	TDA7056A	AP
IC7201	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC7202	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC7203	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC7204	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC7205	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q7201	VS2SA1036KR-1Y	J	2SA1036KT146R	AC
Q7202	VS2SC3928AR-1Y	J	2SC3928AR	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D7201	VHDDAN202K/-1Y	J	DAN202KT146	AB
D7202	VHDDAN202K/-1Y	J	DAN202KT146	AB
D7203	VHDDAN202K/-1Y	J	DAN202KT146	AB
D7204	VHDDAN202K/-1Y	J	DAN202KT146	AB
D7205	VHDDAN202K/-1Y	J	DAN202KT146	AB
D7206	VHDDAN202K/-1Y	J	DAN202KT146	AB
D7207	VHDDAN202K/-1Y	J	DAN202KT146	AB
D7208	VHDDAN202K/-1Y	J	DAN202KT146	AB
D7209	VHDDAN202K/-1Y	J	DAN202KT146	AB

CAPACITORS

Ref. No.	Part No.	★				Code
C831	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AC
C382	VCEASM1CW107MYJ		100	16V	Electrolytic	AD
C384	VCEASM1CW106MYJ		10	16V	Electrolytic	AC
C385	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7201	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7202	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C7203	VCEASM1CW107MYJ		100	16V	Electrolytic	AD
C7204	VCEASM1CW476MYJ		47	16V	Electrolytic	AC
C7205	VCEASM1CW476MYJ		47	16V	Electrolytic	AC
C7206	VCEASM1CW476MYJ		47	16V	Electrolytic	AC
C7207	VCEASM1CW476MYJ		47	16V	Electrolytic	AC
C7208	VCEASM1CW476MYJ		47	16V	Electrolytic	AC
C7209	VCEASM1CW226MYJ		22	16V	Electrolytic	AC
C7210	VCE9PF1CW336MY	J	33	16V	Elect. (N.P)	AD

RESISTORS

Ref. No.	Part No.	★				Code
R381	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R382	VRS-TX2HF8R2JY	J	8.2	1/2W	Metal Oxide	AB
R384	VRS-CY1JF681JY	J	680	1/16W	Metal Oxide	AA
R7202	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7203	VRS-CY1JF822FY	J	8.2k	1/16W	Metal Oxide	AA
R7204	VRS-CY1JF332FY	J	3.3k	1/16W	Metal Oxide	AA
R7206	VRS-CY1JF273JY	J	27k	1/16W	Metal Oxide	AA
R7207	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R7209	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7210	VRS-CY1JF822FY	J	8.2k	1/16W	Metal Oxide	AA
R7211	VRS-CY1JF302FY	J	3k	1/16W	Metal Oxide	AA
R7212	VRS-CY1JF104FY	J	100k	1/16W	Metal Oxide	AA
R7215	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7216	VRS-CY1JF822FY	J	8.2k	1/16W	Metal Oxide	AA
R7217	VRS-CY1JF332FY	J	3.3k	1/16W	Metal Oxide	AA
R7219	VRS-CY1JF273JY	J	27k	1/16W	Metal Oxide	AA
R7220	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R7222	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7223	VRS-CY1JF682FY	J	6.8k	1/16W	Metal Oxide	AA
R7224	VRS-CY1JF272FY	J	2.7k	1/16W	Metal Oxide	AA
R7225	VRS-CY1JF823FY	J	82k	1/16W	Metal Oxide	AA
R7227	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R7229	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7230	VRS-CY1JF682FY	J	6.8k	1/16W	Metal Oxide	AA
R7231	VRS-CY1JF332FY	J	3.3k	1/16W	Metal Oxide	AA
R7232	VRS-CY1JF105FY	J	1M	1/16W	Metal Oxide	AA
R7233	VRS-CY1JF183FY	J	18k	1/16W	Metal Oxide	AA
R7234	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R7235	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R7236	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R7237	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R7239	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R7240	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R7241	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R7244	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7245	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R7246	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7247	VRS-CY1JF273JY	J	27k	1/16W	Metal Oxide	AA
R7248	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7249	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R7250	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R7251	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R7252	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R7255	VRS-CY1JF333FY	J	33k	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
FB381	RBLN-0064TAZZY	J	Ferrite Bead	AB
FB7201	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB7202	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB7203	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB7204	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB7205	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB7206	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB7207	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB7208	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB7209	RBLN-0062CEZZY	J	Ferrite Bead	AC
FB7210	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB7211	RBLN-0210TAZZY	J	Ferrite Bead	AB
FB7212	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB7213	RBLN-0210TAZZY	J	Ferrite Bead	AB
FB7214	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB7215	RBLN-0210TAZZY	J	Ferrite Bead	AB
FB7216	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB7217	RBLN-0210TAZZY	J	Ferrite Bead	AB
FB7218	RBLN-0059CEZZY	J	Ferrite Bead	AB
P381	QPLGN0474TAZZY	J	Plug, 4-pin (SOO)	AD
P382	QPLGN0539FJZZY	J	Plug, 2-pin (SP)	AD
P7201	QPLGN1174TAZZY	J	Plug, 11-pin (EBO)	AE
P7202	QPLGN0363TAZZY	J	Plug, 3-pin (RT)	AC
P7203	QPLGN0263TAZZY	J	Plug, 2-pin (PT)	AB
P7204	QPLGN0458REZZY	J	Plug, 4-pin (FL)	AD
P7205	QPLGN0565FJZZY	J	Plug, 3-pin (FP)	AD
P7206	QPLGN0566FJZZY	J	Plug, 4-pin (FI)	AD
P7207	QPLGN0463TAZZY	J	Plug, 4-pin (FR)	AC
P7208	QPLGN0364TAZZY	J	Plug, 3-pin (FG)	AC
P7209	QPLGN0364TAZZY	J	Plug, 3-pin (FB)	AC
P7210	QPLGN0566FJZZY	J	Plug, 4-pin (FE)	AD

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INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC701	95KUCB0237AZ	J	MIP290	AM
IC702	95KUCY0006AM	J	UPC1093T	AG
IC703	95KUCY0136AZ	J	FA5501N	AL
IC704	95KUCY0021AK	J	M5233FP	AF
IC705	95KUCC0013DZ	J	UPC78N12H	AM
IC706	95KUCY0116AK	J	FA3641N	AM
IC707	95KUCY0006AM	J	UPC1093T	AG
IC708	95KUCY0021AK	J	M5233FP	AF
IC7701	95KUCY0149AK	J	FA7703	AQ
IC7702	95KUAG0236AZ	J	SI4431ADY	AH
IC7703	95KUAG0236AZ	J	SI4431ADY	AH

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q701	95KUAG0226AB	J	FS14KM-12A	AP
Q702	95KUAY0041AM	J	2SA1797	AE
Q703	95KUAG0226AB	J	FS14KM-12A	AP
Q704	95KUAY0041AM	J	2SA1797	AE
Q705	95KUAG0146DZ	J	2SK2480	AL
Q706	95KUAY0012AK	J	2SA812	AB
Q707	95KUAY0013AK	J	2SC1623	AB
Q708	95KUAY0013AK	J	2SC1623	AB
Q7701	95KUAY0013AM	J	2SC1623	AC
Q7702	95KUAD0132AK	J	2SD2150	AD
Q7703	95KUAY0136AK	J	2SB1424	AD
Q7704	95KUAD0132AK	J	2SD2150	AD
Q7705	95KUAY0136AK	J	2SB1424	AD

DIODES

Ref. No.	Part No.	★	Description	Code
D702	95KUBY0088AK	J	Diode	AE
D703	95KUBY0020AK	J	Diode	AC
D704	95KUBB0206EZ	J	Diode	AN
D705	95KUBY0033BK	J	Diode	AE
D706	95KUBY0033BK	J	Diode	AE
D707	95KUBC0284BZ	J	Diode	AP
D708	95KUBY0020AK	J	Diode	AC
D709	95KUBY0047AK	J	Diode	AE
D710	95KUBY0045AK	J	Diode	AD
D711	95KUBY0045AK	J	Diode	AD
D712	95KUBY0020AK	J	Diode	AC
D713	95KUBY0020AK	J	Diode	AC
D714	95KUBA0039AZ	J	Diode	AC
D715	95KUBB0166BZ	J	Diode	AH
D716	95KUBC0264BE	J	Zener Diode	AD
D717	95KUBB0194AZ	J	Diode	AG
D718	95KUBC0125DK	J	Zener Diode	AB
D719	95KUBY0043AK	J	Diode	
D720	95KUBC0125DK	J	Zener Diode	AB
D721	95KUBC0125DK	J	Zener Diode	AB
D722	95KUBY0020AK	J	Diode	AC
D723	95KUBC0163BK	J	Zener Diode	AE
D7701	95KUBY0068AZ	J	Diode	AD
D7702	95KUBY0068AZ	J	Diode	AD
ZD701	95KUBDAK8R2B	J	Zener Diode	AB
ZD702	95KUBXAD6R2C	J	Zener Diode	AD
ZD703	95KUBXAD150A	J	Zener Diode	AA
ZD704	95KUBXAD180A	J	Zener Diode	AC
ZD705	95KUBXAD270A	J	Zener Diode	AD
ZD707	95KUBXAD3R3C	J	Zener Diode	AC
ZD708	95KUBXBK3R9C	J	Zener Diode	AC
ZD706	95KUBLBL170A	J	Zener Diode	AG

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
⚠ PC701	95KUDC0163BB	J	Photo Coupler	AH
⚠ PC702	95KUDC0163BB	J	Photo Coupler	AH
⚠ PC703	95KUDC0163BB	J	Photo Coupler	AH
⚠ PC704	95KUDC0163BB	J	Photo Coupler	AH

COILS

Ref. No.	Part No.	★	Description	Code
L703	95KUKZ0789ZZ	J	Inductor	AL
L704	95KUKZ1141ZZ	J	Inductor	
L705	95KUKZ1140ZZ	J	Inductor	
L7701	95KULZ1142ZZ	J	Coil	AH
L7702	95KULZ1142ZZ	J	Coil	AH

TRANSFORMERS

Ref. No.	Part No.	★	Description	Code
⚠ T701	95K829205033	J	Transformer	BC
T702	95KUKZ1139ZZ	J	Transformer	AV
⚠ T703	95K829205032	J	Transformer	BC

CONTROL

Ref. No.	Part No.	★	Description	Code
VR701	95KUFBA224DB	J	Control	AC

CAPACITORS

Ref. No.	Part No.	★				Code
C705	95KUGA0439ZZ	J	3.3	400V	Electrolytic	AE
C706	95KUGA0440ZZ	J	150	6.3V	Electrolytic	AD
C707	95KUGXGFD104	J	0.1	50V	Ceramic	AB
C708	95KUGXGCF103	J	0.01	50V	Ceramic	AB
C710	95KUGA0429ZZ	J	820	6.3V	Electrolytic	AD
C712	95KUGZ1336ZZ	J	2.2	450V	Film	AM
C713	95KUGXGCF102	J	0.001	50V	Ceramic	AB
C714	95KUGXAED474	J	0.47	25V	Ceramic	AC
C715	95KUGXGCF103	J	0.01	50V	Ceramic	AB
C716	95KUGXKEF224	J	0.22	25V	Ceramic	AC
C717	95KUGXGCF103	J	0.01	50V	Ceramic	AB
C718	95KUGXGFD333	J	0.033	25V	Electrolytic	AB
C719	95KUGXGCF102	J	0.001	50V	Ceramic	AB
C720	95KUGA0441ZZ	J	39	35V	Electrolytic	AD
C721	95KUGCU102EM	J	1000p	1kV	Ceramic	AD
C722	95KUGA0431ZZ	J	330	220V	Electrolytic	AV
C723	95KUGCU102EM	J	1000p	1kV	Ceramic	AD
C724	95KUGA0432ZZ	J	56	25V	Electrolytic	AD
C725	95KUGCU472BW	J	4700p	1kV	Ceramic	AD
C726	95KUGA0441ZZ	J	39	35V	Electrolytic	AD
C727	95KUGZ1251ZZ	J	47p	2kV	Ceramic	AC
C728	95KUGXGCF472	J	0.0047	50V	Ceramic	AB
C729	95KUGXKHB106	J	10	10V	Ceramic	AD
C730	95KUGXGCF102	J	1000p	50V	Ceramic	AB
C731	95KUGXAED224	J	0.22	25V	Ceramic	AB
C732	95KUGXAED474	J	0.47	25V	Ceramic	AC
C733	95KUGXGFD104	J	0.1	50V	Ceramic	AB
C734	95KUGXGCF152	J	1500p	50V	Ceramic	AB
C736	95KUGXKJT102	J	1000p	630V	Ceramic	AC
C737	95KUGA0433ZZ	J	1000	10V	Electrolytic	AF
C738	95KUGA0433ZZ	J	1000	16V	Electrolytic	AF
C739	95KUGA0434ZZ	J	56	16V	Electrolytic	AD
C741	95KUGA0435ZZ	J	220	25V	Electrolytic	AE
C743	95KUGA0436ZZ	J	680	16V	Electrolytic	AE
C744	95KUGXGFD104	J	0.1	50V	Ceramic	AB
C745	95KUGA0249ZZ	J	100	10V	Electrolytic	AC
C746	95KUGA0249ZZ	J	100	10V	Electrolytic	AC
C747	95KUGA0437ZZ	J	68	25V	Electrolytic	AD
C748	95KUGXHEA105	J	1	6.3V	Ceramic	AC
C749	95KUGXHEA105	J	1	6.3V	Ceramic	AC
C750	95KUGXGFD104	J	0.1	50V	Ceramic	AB
C751	95KUGXGFD104	J	0.1	50V	Ceramic	AB
C752	95KUGXHEA105	J	1	6.3V	Ceramic	AC
C753	95KUGXGFD104	J	0.1	50V	Ceramic	AB
C754	95KUGXGCF102	J	1000p	50V	Ceramic	AB
⚠ C755	95KUGZ1016ZZ	J	4700p	50V	Ceramic	AD
C757	95KUGXGFD104	J	0.1	25V	Ceramic	AB
⚠ C761	95KUGZ1016ZZ	J	4700p	50V	Ceramic	AD
C762	95KUGXKMS101	J	100p	500V	Ceramic	AE
C763	95KUGXKMS101	J	100p	500V	Ceramic	AE
C7701	95KUGXKKD106	J	10	25V	Ceramic	AG
C7702	95KUGXKHB106	J	10	10V	Ceramic	AD
C7703	95KUGXGCC104	J	0.1	16V	Ceramic	AB
C7704	95KUGXGFD473	J	0.047	16V	Ceramic	AB
C7705	95KUGXKHB105	J	1	10V	Ceramic	AC
C7706	95KUGXGFD104	J	0.1	50V	Ceramic	AB
C7707	95KUGXKHB106	J	10	10V	Ceramic	AD
C7708	95KUGXGFD473	J	0.047	16V	Ceramic	AB

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POWER UNIT (Continued)

RESISTORS

Ref. No.	Part No.	★				Description	Code
R703	95KUEXBAH221	J	220	1/16W		Chip	AB
R704	95KUEXBAH122	J	1.2k	1/16W		Chip	AB
R705	95KUEYCH1003	J	100k	1/16W		Chip	AB
R706	95KUEYCH1003	J	100k	1/16W		Chip	AB
R708	95KUEYCH1002	J	10k	1/16W		Chip	AB
R710	95KUESGR15DT	J	0.15	5W		Chip	AG
R711	95KUEXDAK100	J	10	1/4W		Chip	AB
R712	95KUEXDAK100	J	10	1/4W		Chip	AB
R713	95KUEXDAK474	J	470k	1/4W		Chip	AB
R714	95KUEXDAK474	J	470k	1/4W		Chip	AB
R715	95KUEXDAK394	J	390k	1/4W		Chip	AB
R716	95KUEXBAH123	J	12k	1/16W		Chip	AB
R717	95KUEXDAK684	J	680k	1/4W		Chip	AB
R718	95KUEXDAK564	J	560k	1/4W		Chip	AB
R719	95KUEXDAK564	J	560k	1/4W		Chip	AB
R720	95KUEXBAH133	J	13k	1/16W		Chip	AB
R721	95KUEXBAH181	J	180	1/16W		Chip	AB
R722	95KUEXBAH223	J	22k	1/16W		Chip	AB
R723	95KUEXBAH103	J	10k	1/16W		Chip	AB
R724	95KUEXBAH681	J	680	1/16W		Chip	AB
R725	95KUEXDAK334	J	330k	1/4W		Chip	AB
R726	95KUEXDAK334	J	15k	1/4W		Chip	AB
R727	95KUEXDAK334	J	330k	1/4W		Chip	AB
R728	95KUEXBAH153	J	15k	1/16W		Chip	AB
R729	95KUEXBAH822	J	8.2k	1/16W		Chip	AB
R730	95KUEXBAH124	J	120k	1/16W		Chip	AB
R731	95KUEXBAH332	J	6.2k	1/16W		Chip	AB
R732	95KUEXBAH332	J	3.3k	1/16W		Chip	AB
R733	95KUEXBAH123	J	12k	1/16W		Chip	AB
R734	95KUESGR15DT	J	0.15	5W		Chip	AG
R735	95KUEFE154EG	J	150k	1/2W		Chip	AC
R736	95KUEXDAK563	J	56k	1/8W		Chip	AB
R737	95KUEXDAK563	J	56k	1/8W		Chip	AB
R738	95KUEXDAK563	J	56k	1/8W		Chip	AB
R739	95KUEBCR47AG	J	0.47	1/2W		Fuse Resistor	AD
R740	95KUEXJAPR22	J	0.22	1/2W		Chip	AC
R741	95KPZZ0605ZZ	J	0	1/16W		Chip	AA
R742	95KPZZ0605ZZ	J	0	1/16W		Chip	AA
R743	95KUEXBAH223	J	22k	1/16W		Chip	AB
R744	95KUEXBAH103	J	10k	1/16W		Chip	AB
R745	95KUEXBAH273	J	27k	1/16W		Chip	AB
R746	95KUEXDAK000	J	0	1/4W		Chip	AB
R747	95KUEXDAK100	J	10	1/4W		Chip	AB
R748	95KUEXDAK151	J	150	1/16W		Chip	AB
R749	95KUEXBAS101	J	100	1/16W		Chip	AB
R750	95KUEXBAS331	J	330	1/16W		Chip	AB
R751	95KUEXBAH472	J	4.7k	1/16W		Chip	AB
R752	95KUEXBAH391	J	390	1/16W		Chip	AB
R753	95KUEXBAH473	J	47k	1/16W		Chip	AB
R754	95KUEXBAH103	J	10k	1/16W		Chip	AB
R756	95KUEXBAH222	J	2.2k	1/16W		Chip	AB
R757	95KUEXBAH000	J	0	1/10W		Chip	AB
R758	95KUEXBAH122	J	1.2k	1/16W		Chip	AB
R759	95KUEYBG2202	J	22k	1/8W		Chip	AB
R760	95KUEYBG4701	J	4.7k	1/4W		Chip	AB
R761	95KUEXDAK122	J	1.2k	1/4W		Chip	AB
R762	95KUEXBAH104	J	100k	1/16W		Chip	AB
R765	95KUEXBAH152	J	1.5k	1/16W		Chip	AB
R766	95KUEXBAH122	J	1.2k	1/16W		Chip	AB
R767	95KUEYCH2703	J	330k	1/16W		Chip	AB
R768	95KUEXBAH122	J	1.2k	1/16W		Chip	AB
R769	95KUEXBAH103	J	11k	1/16W		Chip	AB
R770	95KUEXBAH122	J	1.3k	1/16W		Chip	AB
R771	95KUEXBAH104	J	100k	1/16W		Chip	AB
R772	95KUEXBAH103	J	10k	1/16W		Chip	AB
R773	95KUEXBAH103	J	10k	1/16W		Chip	AB
R774	95KUEXBAH103	J	10k	1/16W		Chip	AB
R775	95KUEBCR10AG	J	1	1/2W		Fuse Resistor	AE
R776	95KUEXBAH103	J	10k	1/16W		Chip	AB
R777	95KUEXBAH163	J	16k	1/16W		Chip	AB
R778	95KUEXBAH164	J	160k	1/16W		Chip	AB
R779	95KUEXBAH103	J	10k	1/16W		Chip	AB
R780	95KUEXBAH122	J	1.2k	1/16W		Chip	AB
R782	95KUEXBAH122	J	1.2k	1/16W		Chip	AB
R783	95KUEXBAH122	J	1.2k	1/16W		Chip	AB
R784	95KUEXDAK563	J	56k	1/8W		Chip	AB
R785	95KUEXDAK563	J	56k	1/8W		Chip	AB
R7701	95KUEXBAH123	J	12k	1/16W		Chip	AB
R7702	95KUEXBAH123	J	12k	1/16W		Chip	AB
R7703	95KUEXBAH682	J	6.8k	1/16W		Chip	AB
R7704	95KUEXBAH153	J	15k	1/16W		Chip	AB
R7705	95KUEXBAH102	J	1k	1/16W		Chip	AB
R7706	95KUEYCH2701	J	2.7k	1/16W		Chip	AB
R7707	95KUEYCH1201	J	1.2k	1/16W		Chip	AB
R7708	95KUEXBAH123	J	12k	1/16W		Chip	AB
R7709	95KUEXBAH102	J	1k	1/16W		Chip	AB
R7710	95KUEYCH1501	J	1.5k	1/16W		Chip	AB
R7711	95KUEYCH1001	J	1k	1/16W		Chip	AB
R7712	95KUEXBAH103	J	10k	1/16W		Chip	AB
R7713	95KUEXBAH682	J	6.8k	1/16W		Chip	AB
R7714	95KUEXBAH103	J	10k	1/16W		Chip	AB
R7715	95KUEXDAK121	J	120	1/8W		Chip	AB
R7716	95KUEXDAK100	J	10	1/8W		Chip	AB
R7717	95KUEXDAK121	J	120	1/8W		Chip	AB
R7718	95KUEXDAK100	J	10	1/8W		Chip	AB
R7719	95KUEYCH3300	J	330	1/16W		Chip	AB
R7720	95KUEYCH2700	J	270	1/16W		Chip	AB
R7723	95KUEXBAH000	J	0	1/16W		Chip	AB
R7724	95KUEXBAH470	J	47	1/16W		Chip	AB
J701	95KUEXCAS000	J	0	1/8W		Chip	AB
J702	95KUEXCAS000	J	0	1/8W		Chip	AB
J7701	95KUEXBAH000	J	0	1/16W		Jumper	AB
J7702	95KUEXBAH000	J	0	1/16W		Jumper	AB

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
FB701	95KBFZ89547Z	J	Ferrite Bead	AC
FB702	95KBFZ89547Z	J	Ferrite Bead	AC
FB703	95KUKY0014AZ	J	Ferrite Bead	AD
FB704	95KUKY0014AZ	J	Ferrite bead	AD
FB706	95KUKY0014AZ	J	Ferrite Bead	AD
FB707	95KUKZ0828ZZ	J	Ferrite Bead	AC
FB708	95KUKY0014AZ	J	Ferrite Bead	AD
FB709	95KUKY0014AZ	J	Ferrite Bead	AD
FB710	95KUKY0014AZ	J	Ferrite Bead	AD
⚠ F703	95KPJT0160ZZ	J	Fuse P130A	AF
CN704	95KPKZ1102ZZ	J	Plug, 3-pin	AC
CN-B704	95KECB8034ZZ	J	Plug, 3-pin	AL
CN705	95KECB8060ZZ	J	Plug, 5-pin	AN
CN706	95KPKZ1135ZZ	J	Plug, 3-pin	AD
CN707	95KECB8036ZZ	J	Plug, 2-pin	AF
CN708	95KECB8037ZZ	J	Plug, 24-pin	AS
ET701	95KFBZ0098ZZ	J	Terminal	AC
⚠ RL702	95KPHZ0206ZZ	J	Relay	AM
MT702	95KLRZ6926ZZ	J	Heat Sink	AM
MT703	95KLRZ6868ZR	J	Heat Sink	AM
MT704	95KLRZ6869ZR	J	Heat Sink	AM
MD704	95KGZZ5492ZZ	J	Insulating Barrier	AM
SC704	95KRAZ3211ZB	J	Screw, x8	AA
SC705	95KRBA3024ZB	J	Nut, x2	AA

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INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC8003	9DK001-11020	J	AT24C128N-10SC	AS
IC8004	9DK001-15115	J	PQ05VY3H3Z	AM
IC8005	RH-iXA372WJZZQ	J	LH28F640BFE-PBTL90	BE
IC8006	9DK001-15118	J	PST9229	AL
IC8007	RH-iXA147WJZZQ	J	HD6417709ABP133V	BK
IC8008	9DK001-15112	J	PQ033EZ01	AM
IC8010	9DK001-15117	J	PST9222	AK
IC8013	9DK001-15113	J	AD9888-170	BT
IC8015	9DK001-15119	J	SAA7118E	BM
IC8025	RH-iXA091WJZZQ	J	CVIC2(MB87M1370TB-G)	BX
IC8028	9DK001-11028	J	HY57V641620HGT-H	AY
IC8029	RH-iX3399CEN1Q	J	IX3399	BM
IC8030	9DK001-11028	J	HY57V641620HGT-H	AY
IC8319	9DK001-11024	J	HY57V653220BTC-7	BN
IC8320	9DK001-11024	J	HY57V653220BTC-7	BN
IC8321	9DK001-11024	J	HY57V653220BTC-7	BN
IC8322	9DK001-11024	J	HY57V653220BTC-7	BN
IC8363	9DK001-12107	J	74VHC153MTC	AK
IC8364	9DK001-15114	J	PQ070XZ01	AN
IC8365	9DK001-12103	J	74LCX157MTC	AK
IC8366	9DK001-12105	J	74LVX125MTC	AK

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q8002	9DK001-20012	J	2SA1037AKQ	AE
Q8005	9DK001-20012	J	2SA1037AKQ	AE

DIODES

Ref. No.	Part No.	★	Description	Code
D8005	9DK001-30018	J	1SS187(D3)	AD
D8009	9DK001-30018	J	1SS187(D3)	AD
D8035	9DK001-30018	J	1SS187(D3)	AD

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
X8001	9DK001-80038	J	Crystal, 16.588MHz	AN
X8004	9DK001-80027	J	Crystal, 25.000MHz	AR
X8005	9DK001-80039	J	Crystal, 37.500MHz	AR
X8006	9DK001-80034	J	Crystal, 24.576MHz	AN
X8007	9DK001-80015	J	Crystal, 32.768kHz	AS

FILTERS AND COILS

Ref. No.	Part No.	★	Description	Code
FL8001	9DK001-50121	J	10 1/10W Chip 2125	AB
FL8002	9DK001-50110	J	0 1/10W Chip 2125	AB
FL8003	9DK001-81020	J	Filter BMK351	AG
FL8041	9DK001-81020	J	Filter BMK351	AG
FL8094	9DK001-81020	J	Filter BMK351	AG
FL8103	9DK001-81020	J	Filter BMK351	AG
FL8098	9DK001-50110	J	0 1/10W Chip 2125	AB
FL8099	9DK001-50110	J	0 1/10W Chip 2125	AB
FL8110	9DK001-50110	J	0 1/10W Chip 2125	AB
FL8114	9DK001-50110	J	0 1/10W Chip 2125	AB
L8003	9DK001-81059	J	NLC322522T 1.0µH	AE
L8004	9DK001-81059	J	NLC322522T 3.3µH	AE
L8005	9DK001-81059	J	NLC322522T 3.3µH	AE
L8006	9DK001-81062	J	BLM21P221SG	AE
L8011	9DK001-81059	J	NLC322522T 3.3µH	AE
L8012	9DK001-81059	J	NLC322522T 3.3µH	AE
L8013	9DK001-81062	J	BLM21P221SG	AE
L8014	9DK001-81059	J	NLC322522T 3.3µH	AE
L8015	9DK001-81062	J	BLM21P221SG	AE
L8022	9DK001-81059	J	NLC322522T 3.3µH	AE

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C8003	9DK001-42157	J	0.1 25V Ceramic	AC
C8004	9DK001-42099	J	100p 50V Ceramic	AC
C8005	9DK001-42161	J	0.047 25V Ceramic	AB
C8007	9DK001-42156	J	1 10V Ceramic	AC
C8008	9DK001-42157	J	0.1 25V Ceramic	AC
C8009	9DK001-42157	J	0.1 25V Ceramic	AC
C8010	9DK001-42160	J	10 6.3V Ceramic	AB
C8012	9DK001-42103	J	15p 50V Ceramic	AC
C8013	9DK001-42103	J	15p 50V Ceramic	AC
C8014	9DK001-42156	J	1 10V Ceramic	AC
C8015	9DK001-42160	J	10 6.3V Ceramic	AB
C8016	9DK001-42157	J	0.1 25V Ceramic	AC
C8017	9DK001-42156	J	1 10V Ceramic	AC
C8018	9DK001-42163	J	1000p 25V Ceramic	AC
C8019	9DK001-42104	J	470p 50V Ceramic	AC
C8020	9DK001-42104	J	470p 50V Ceramic	AC
C8021	9DK001-40081	J	22 6.3V Electrolytic	AF
C8022	9DK001-42156	J	1 10V Ceramic	AC
C8023	9DK001-42156	J	1 10V Ceramic	AC
C8024	9DK001-42157	J	0.1 25V Ceramic	AC
C8025	9DK001-42160	J	10 6.3V Ceramic	AB
C8026	9DK001-42157	J	0.1 25V Ceramic	AC
C8027	9DK001-42161	J	0.047 25V Ceramic	AB
C8028	9DK001-42161	J	0.047 25V Ceramic	AB
C8029	9DK001-42161	J	0.047 25V Ceramic	AB
C8030	9DK001-42157	J	0.1 25V Ceramic	AC
C8031	9DK001-42156	J	1 10V Ceramic	AC
C8033	9DK001-42156	J	1 10V Ceramic	AE
C8035	9DK001-40089	J	47 6.3V Electrolytic	AE
C8038	9DK001-42161	J	0.047 25V Ceramic	AB
C8039	9DK001-40089	J	47 6.3V Electrolytic	AE
C8040	9DK001-42161	J	0.047 25V Ceramic	AB
C8041	9DK001-42161	J	0.047 25V Ceramic	AB
C8042	9DK001-40091	J	100 4V Electrolytic	AF
C8043	9DK001-42161	J	0.047 25V Ceramic	AB
C8044	9DK001-42161	J	0.047 25V Ceramic	AB
C8045	9DK001-42161	J	0.047 25V Ceramic	AB
C8046	9DK001-42103	J	15p 50V Ceramic	AC
C8047	9DK001-42103	J	15p 50V Ceramic	AC
C8048	9DK001-40081	J	22 6.3V Electrolytic	AF
C8049	9DK001-42157	J	0.1 25V Ceramic	AC
C8050	9DK001-40081	J	22 6.3V Electrolytic	AF
C8051	9DK001-42156	J	1 10V Ceramic	AC
C8052	9DK001-42157	J	0.1 25V Ceramic	AC
C8053	9DK001-42157	J	0.1 25V Ceramic	AC
C8054	9DK001-42157	J	0.1 25V Ceramic	AC
C8055	9DK001-42157	J	0.1 25V Ceramic	AC
C8056	9DK001-42157	J	0.1 25V Ceramic	AF
C8057	9DK001-40091	J	100 4V Electrolytic	AF
C8058	9DK001-42161	J	0.047 25V Ceramic	AB
C8059	9DK001-42161	J	0.047 25V Ceramic	AB
C8060	9DK001-42157	J	0.1 25V Ceramic	AC
C8062	9DK001-42161	J	0.047 25V Ceramic	AB
C8063	9DK001-42157	J	0.1 25V Ceramic	AC
C8064	9DK001-42157	J	0.1 25V Ceramic	AC
C8065	9DK001-42157	J	0.1 25V Ceramic	AC
C8066	9DK001-40091	J	100 4V Electrolytic	AF
C8069	9DK001-42096	J	0.01 50V Ceramic	AC
C8070	9DK001-42161	J	0.047 25V Ceramic	AB
C8071	9DK001-42096	J	0.01 50V Ceramic	AC
C8072	9DK001-42157	J	0.1 25V Ceramic	AC
C8073	9DK001-42157	J	0.1 25V Ceramic	AC
C8074	9DK001-42157	J	0.1 25V Ceramic	AC
C8075	9DK001-42157	J	0.1 25V Ceramic	AC
C8076	9DK001-42157	J	0.1 25V Ceramic	AC
C8077	9DK001-42157	J	0.1 25V Ceramic	AC
C8078	9DK001-42161	J	0.047 25V Ceramic	AB
C8085	9DK001-42157	J	0.1 25V Ceramic	AC
C8082	9DK001-42162	J	0.33 10V Ceramic	AB
C8083	9DK001-40081	J	22 6.3V Electrolytic	AF
C8140	9DK001-42161	J	0.047 25V Ceramic	AB
C8141	9DK001-42161	J	0.047 25V Ceramic	AB
C8142	9DK001-42161	J	0.047 25V Ceramic	AB
C8150	9DK001-42157	J	0.1 25V Ceramic	AC
C8151	9DK001-42157	J	0.1 25V Ceramic	AC
C8152	9DK001-42157	J	0.1 25V Ceramic	AC
C8153	9DK001-42157	J	0.1 25V Ceramic	AC
C8154	9DK001-42157	J	0.1 25V Ceramic	AC
C8155	9DK001-42157	J	0.1 25V Ceramic	AC
C8156	9DK001-42157	J	0.1 25V Ceramic	AC
C8157	9DK001-42157	J	0.1 25V Ceramic	AC
C8158	9DK001-42157	J	0.1 25V Ceramic	AC
C8159	9DK001-42157	J	0.1 25V Ceramic	AC
C8160	9DK001-42157	J	0.1 25V Ceramic	AC

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Ref. No.	Part No.	★			Description	Code
C8161	9DK001-42157	J	0.1	25V	Ceramic	AC
C8162	9DK001-42157	J	0.1	25V	Ceramic	AC
C8163	9DK001-42157	J	0.1	25V	Ceramic	AC
C8164	9DK001-42157	J	0.1	25V	Ceramic	AC
C8165	9DK001-42157	J	0.1	25V	Ceramic	AC
C8166	9DK001-42158	J	3900p	16V	Film	AL
C8167	9DK001-42159	J	0.039	16V	Film	AG
C8169	9DK001-42157	J	0.1	25V	Ceramic	AC
C8170	9DK001-42157	J	0.1	25V	Ceramic	AC
C8171	9DK001-42157	J	0.1	25V	Ceramic	AC
C8174	9DK001-42157	J	0.1	25V	Ceramic	AC
C8176	9DK001-42157	J	0.1	25V	Ceramic	AC
C8177	9DK001-42157	J	0.1	25V	Ceramic	AC
C8192	9DK001-42157	J	0.1	25V	Ceramic	AC
C8197	9DK001-42157	J	0.1	25V	Ceramic	AC
C8205	9DK001-42157	J	0.1	25V	Ceramic	AC
C8214	9DK001-42157	J	0.1	25V	Ceramic	AC
C8218	9DK001-42157	J	0.1	25V	Ceramic	AC
C8366	9DK001-40091	J	100	4V	Electrolytic	AC
C8375	9DK001-40091	J	100	4V	Electrolytic	AC
C8575	9DK001-42157	J	0.1	25V	Ceramic	AC
C8576	9DK001-42156	J	1	10V	Ceramic	AC
C8577	9DK001-42156	J	1	10V	Ceramic	AC
C8578	9DK001-42156	J	1	10V	Ceramic	AC
C8579	9DK001-42156	J	1	10V	Ceramic	AC
C8580	9DK001-42157	J	0.1	25V	Ceramic	AC
C8581	9DK001-42156	J	1	10V	Ceramic	AC
C8582	9DK001-42156	J	1	10V	Ceramic	AC
C8583	9DK001-42156	J	1	10V	Ceramic	AC
C8584	9DK001-42157	J	0.1	25V	Ceramic	AC
C8585	9DK001-42157	J	0.1	25V	Ceramic	AC
C8586	9DK001-42156	J	1	10V	Ceramic	AC
C8589	9DK001-42156	J	1	10V	Ceramic	AC
C8590	9DK001-42156	J	1	10V	Ceramic	AC
C8591	9DK001-42156	J	1	10V	Ceramic	AC
C8592	9DK001-42156	J	1	10V	Ceramic	AC
C8593	9DK001-42156	J	1	10V	Ceramic	AC
C8594	9DK001-42157	J	0.1	25V	Ceramic	AC
C8595	9DK001-42157	J	0.1	25V	Ceramic	AC
C8596	9DK001-42156	J	1	10V	Ceramic	AC
C8597	9DK001-42157	J	0.1	25V	Ceramic	AC
C8598	9DK001-42156	J	1	10V	Ceramic	AC
C8599	9DK001-42156	J	1	10V	Ceramic	AC
C8600	9DK001-42157	J	0.1	25V	Ceramic	AC
C8601	9DK001-42157	J	0.1	25V	Ceramic	AC
C8602	9DK001-40091	J	100	4V	Electrolytic	AC
C8603	9DK001-42157	J	0.1	25V	Ceramic	AC
C8607	9DK001-42157	J	0.1	25V	Ceramic	AC
C8609	9DK001-42157	J	0.1	25V	Ceramic	AC
C8611	9DK001-42157	J	0.1	25V	Ceramic	AC
C8613	9DK001-42157	J	0.1	25V	Ceramic	AC
C8615	9DK001-42157	J	0.1	25V	Ceramic	AC
C8617	9DK001-42157	J	0.1	25V	Ceramic	AC
C8619	9DK001-42157	J	0.1	25V	Ceramic	AC
C8621	9DK001-42157	J	0.1	25V	Ceramic	AC
C8623	9DK001-42157	J	0.1	25V	Ceramic	AC
C8625	9DK001-42157	J	0.1	25V	Ceramic	AC
C8627	9DK001-42157	J	0.1	25V	Ceramic	AC
C8629	9DK001-42157	J	0.1	25V	Ceramic	AC
C8631	9DK001-42157	J	0.1	25V	Ceramic	AC
C8633	9DK001-42157	J	0.1	25V	Ceramic	AC
C8635	9DK001-42157	J	0.1	25V	Ceramic	AC
C8637	9DK001-42157	J	0.1	25V	Ceramic	AC
C8638	9DK001-42157	J	0.1	25V	Ceramic	AC
C8640	9DK001-42157	J	0.1	25V	Ceramic	AC
C8641	9DK001-42157	J	0.1	25V	Ceramic	AC
C8648	9DK001-42157	J	0.1	25V	Ceramic	AC
C8649	9DK001-42157	J	0.1	25V	Ceramic	AC
C8656	9DK001-42157	J	0.1	25V	Ceramic	AC
C8658	9DK001-42157	J	0.1	25V	Ceramic	AC
C8662	9DK001-42157	J	0.1	25V	Ceramic	AC
C8666	9DK001-42096	J	0.01	50V	Ceramic	AC
C8668	9DK001-42157	J	0.1	25V	Ceramic	AC
C8670	9DK001-42157	J	0.1	25V	Ceramic	AC
C8672	9DK001-42157	J	0.1	25V	Ceramic	AC
C8678	9DK001-42157	J	0.1	25V	Ceramic	AC
C8682	9DK001-42157	J	0.1	25V	Ceramic	AC
C8685	9DK001-42157	J	0.1	25V	Ceramic	AC
C8686	9DK001-42157	J	0.1	25V	Ceramic	AC
C8687	9DK001-42157	J	0.1	25V	Ceramic	AC
C8688	9DK001-42157	J	0.1	25V	Ceramic	AC
C8689	9DK001-42157	J	0.1	25V	Ceramic	AC
C8697	9DK001-42157	J	0.1	25V	Ceramic	AC
C8708	9DK001-40090	J	47	4V	Electrolytic	AC
C8759	9DK001-42157	J	0.1	25V	Ceramic	AC
C8901	9DK001-42157	J	0.1	25V	Ceramic	AC
C8904	9DK001-42157	J	0.1	25V	Ceramic	AC
C8905	9DK001-42157	J	0.1	25V	Ceramic	AC
C8906	9DK001-42157	J	0.1	25V	Ceramic	AC
C8910	9DK001-42157	J	0.1	25V	Ceramic	AC
C8915	9DK001-42157	J	0.1	25V	Ceramic	AC
C8916	9DK001-42115	J	10p	50V	Ceramic	AC
C8918	9DK001-42157	J	0.1	25V	Ceramic	AC
C8920	9DK001-42115	J	10p	50V	Ceramic	AC
C8923	9DK001-42157	J	0.1	25V	Ceramic	AC
C8924	9DK001-42157	J	0.1	25V	Ceramic	AC
C8930	9DK001-42157	J	0.1	25V	Ceramic	AC
C8902	9DK001-42156	J	1	10V	Ceramic	AC
C8909	9DK001-42156	J	1	10V	Ceramic	AC
C8911	9DK001-42156	J	1	10V	Ceramic	AC
C8912	9DK001-42156	J	1	10V	Ceramic	AC
C8913	9DK001-42156	J	1	10V	Ceramic	AC
C8914	9DK001-42156	J	1	10V	Ceramic	AC
C8917	9DK001-42156	J	1	10V	Ceramic	AC
C8919	9DK001-40110	J	68	4V	Electrolytic	AM
C8921	9DK001-40091	J	100	4V	Electrolytic	AF
C8922	9DK001-42162	J	0.33	10V	Ceramic	AB
C8925	9DK001-42160	J	10	6.3V	Ceramic	AB
C8927	9DK001-40091	J	100	4V	Electrolytic	AF
C8928	9DK001-40091	J	100	4V	Electrolytic	AF
C8931	9DK001-42161	J	0.047	25V	Ceramic	AB
C8932	9DK001-42156	J	1	10V	Ceramic	AC

RESISTORS

R8001	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8002	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8003	9DK001-50179	J	2.2k	1/16W	Chip 1608	AA
R8008	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8011	9DK001-51045	J	100	1/16W	Resistor Array	AB
R8017	9DK001-50183	J	4.7k	1/16W	Chip 1608	AA
R8018	9DK001-50186	J	22k	1/16W	Chip 1608	AA
R8022	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8025	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8026	9DK001-51037	J	6.8k	1/16W	Resistor Array	AD
R8028	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8029	9DK001-50275	J	6.8	1/16W	Chip 1608	AB
R8032	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8035	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8036	9DK001-50177	J	1k	1/16W	Chip 1608	AA
R8037	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8038	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8039	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8040	9DK001-50044	J	68	1/10W	Chip 2125	AB
R8041	9DK001-50275	J	6.8	1/16W	Chip 1608	AB
R8042	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8045	9DK001-50044	J	68	1/10W	Chip 2125	AB
R8046	9DK001-50275	J	6.8	1/16W	Chip 1608	AB
R8047	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8048	9DK001-50044	J	68	1/10W	Chip 2125	AB
R8054	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8063	9DK001-50236	J	910	1/16W	Chip 1608	AB
R8064	9DK001-50213	J	2k	1/16W	Chip 1608	AB
R8067	9DK001-51037	J	6.8k	1/16W	Resistor Array	AD
R8069	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8073	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8074	9DK001-50185	J	10k	1/16W	Chip 1608	AA

CPCi-A002CE03
PC I/F UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R8075	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8080	9DK001-50044	J	68	1/10W	Chip 2125	AB
R8083	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8088	9DK001-50044	J	68	1/10W	Chip 2125	AB
R8091	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8096	9DK001-50044	J	68	1/10W	Chip 2125	AB
R8097	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8104	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8107	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8109	9DK001-51037	J	6.8k	1/16W	Resistor Array	AD
R8110	9DK001-51037	J	6.8k	1/16W	Resistor Array	AD
R8114	9DK001-50303	J	39	1/10W	Chip 2125	AA
R8117	9DK001-50298	J	120	1/4W	Chip 3216	AB
R8121	9DK001-50292	J	8.2	1/4W	Chip 3216	AA
R8122	9DK001-50292	J	8.2	1/4W	Chip 3216	AA
R8134	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8138	9DK001-50177	J	1k	1/16W	Chip 1608	AA
R8139	9DK001-50177	J	1k	1/16W	Chip 1608	AA
R8140	9DK001-50177	J	1k	1/16W	Chip 1608	AA
R8143	9DK001-50177	J	1k	1/16W	Chip 1608	AA
R8152	9DK001-42161	J	0.047	25V	Ceramic	AB
R8153	9DK001-42161	J	0.047	25V	Ceramic	AB
R8155	9DK001-42161	J	0.047	25V	Ceramic	AB
R8156	9DK001-42161	J	0.047	25V	Ceramic	AB
R8157	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8158	9DK001-42161	J	0.047	25V	Ceramic	AB
R8159	9DK001-42161	J	0.047	25V	Ceramic	AB
R8160	9DK001-42161	J	0.047	25V	Ceramic	AB
R8161	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8162	9DK001-50183	J	4.7k	1/16W	Chip 1608	AA
R8165	9DK001-50181	J	3.3k	1/16W	Chip 1608	AA
R8166	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8170	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8172	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8174	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8176	9DK001-50224	J	150	1/4W	Chip 3216	AB
R8178	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8180	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8199	9DK001-51037	J	6.8k	1/16W	Resistor Array	AD
R8201	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8500	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8503	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8509	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8510	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8511	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8512	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8513	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8521	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8552	9DK001-50161	J	47	1/16W	Chip 1608	AA
R8654	9DK001-50204	J	150	1/16W	Chip 1608	AA
R8688	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8690	9DK001-50173	J	470	1/16W	Chip 1608	AA
R8692	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8693	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8694	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8695	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8696	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8697	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8698	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8699	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8700	9DK001-50218	J	20k	1/16W	Chip 1608	AA
R8701	9DK001-50257	J	75	1/16W	Chip 1608	AA
R8800	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8801	9DK001-50205	J	1.8k	1/16W	Chip 1608	AA
R8867	9DK001-50275	J	6.8	1/16W	Chip 1608	AB
R8868	9DK001-50275	J	6.8	1/16W	Chip 1608	AB
R8869	9DK001-50275	J	6.8	1/16W	Chip 1608	AB
R8994	9DK001-50236	J	910	1/16W	Chip 1608	AB
R8995	9DK001-50199	J	2.15k	1/16W	Chip 1608	AB
R8996	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8997	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8998	9DK001-50177	J	1k	1/16W	Chip 1608	AA
R8999	9DK001-50303	J	39	1/10W	Chip 2125	AA

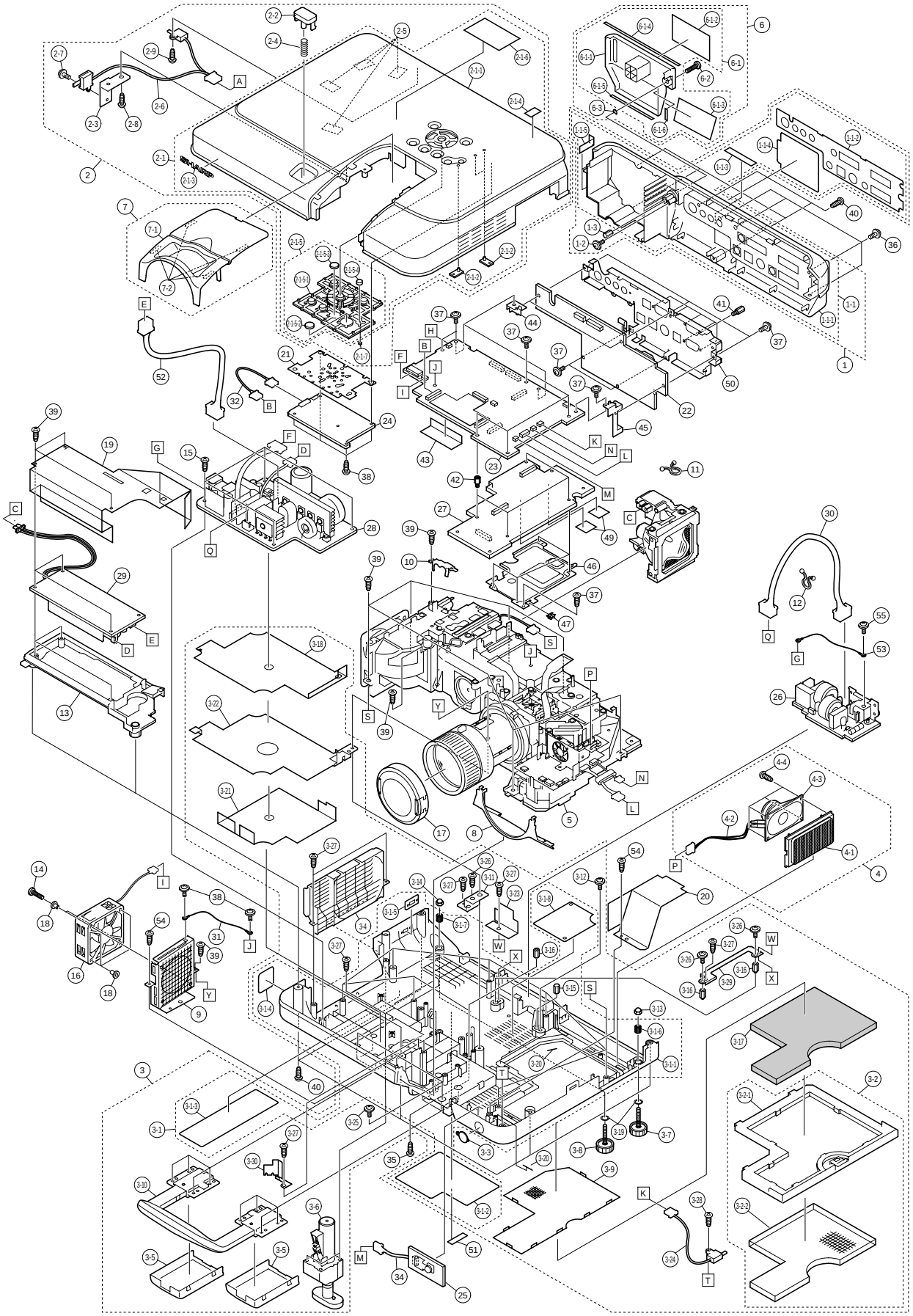
SWITCH

SW80019	DK001-70012	J	SSSS811101			AL

MISCELLANEOUS PARTS

SC8001	9DK001-60078	J	54230-0808			AQ
SC8002	9DK001-60078	J	54230-0808			AQ
	9DK001-99055	J	CPV-1.0-039039			AQ
	9DK001-99056	J	CPV-1.0-013019			AE
	PSLDMA008WJFW	J	Shield			AK
	NSFTZA001WJFW	J	Shaft			AD
	9DK001-99058	J	EDS-0607M			AE

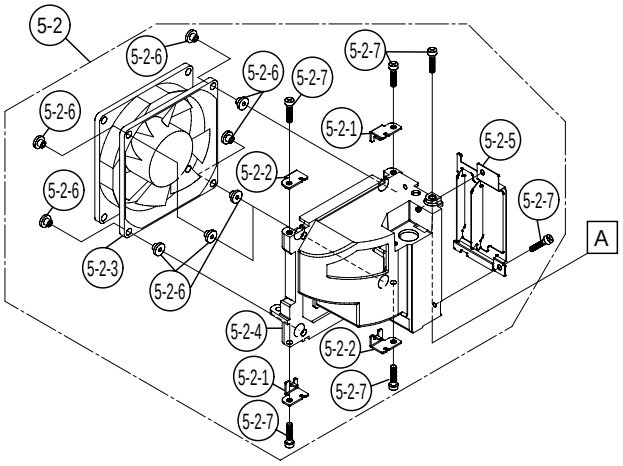
CABINET AND MECHANICAL PARTS

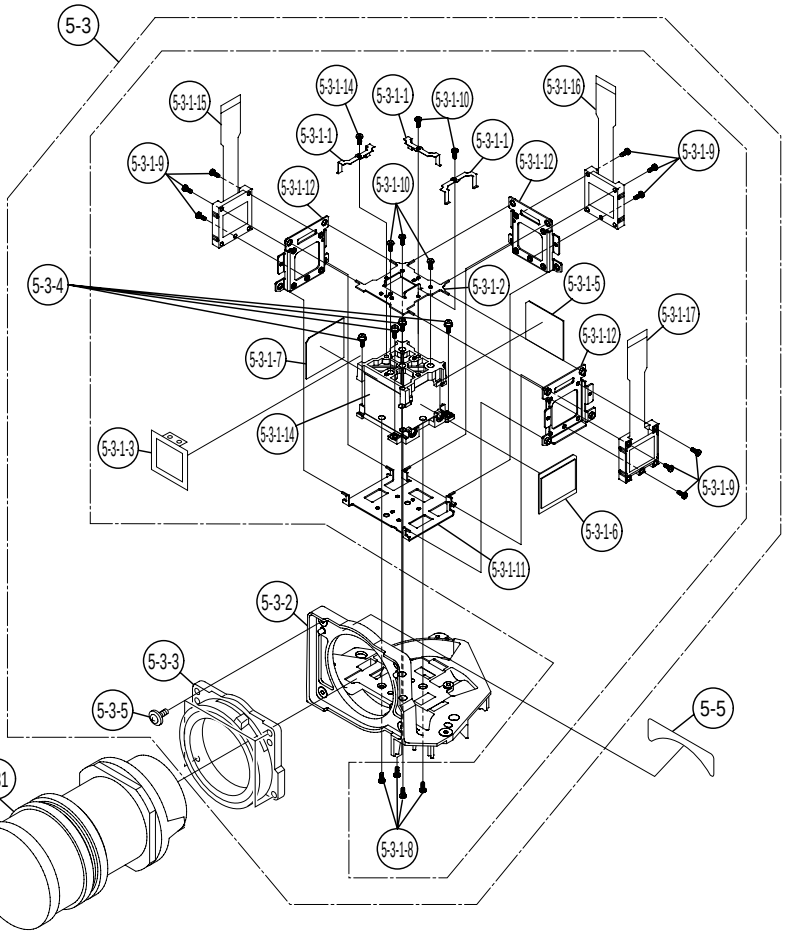


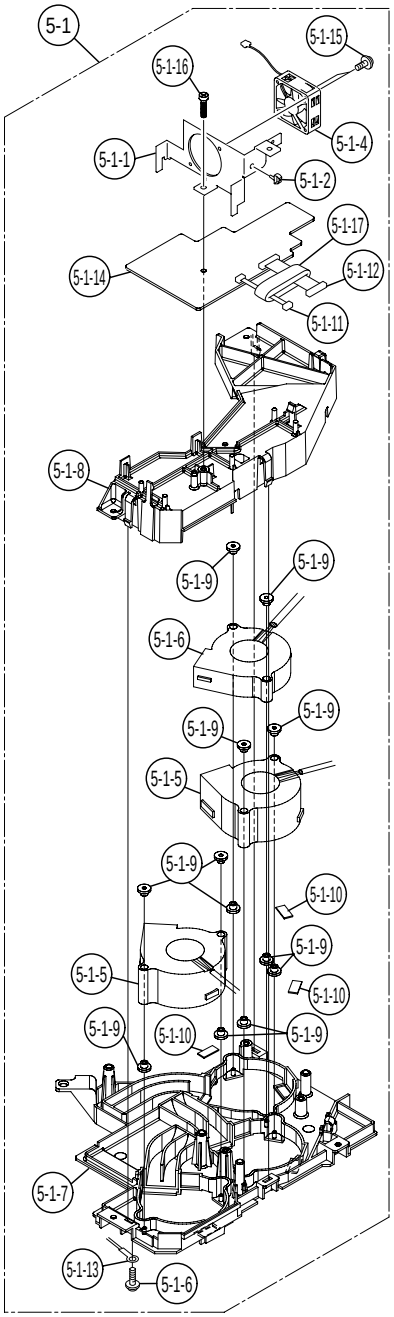
CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	*Not Available*	–	Rear Body Unit Ass'y	—
1-1	DBDYRA001WJ01	J	Rear Body Ass'y	AZ
1-1-1	*Not Available*	–	Rear Body	—
1-1-2	HiNDPA084WJSA	J	Terminal Indication Panel	AH
1-1-3	HiNDPA085WJZZ	J	Earth Label	AD
1-1-4	HiNDPA088WJZZ	J	Lamp Replacement Label	AE
1-1-5	PSPAKA008WJ00	J	Spacer, x2	AD
1-2	LX-HZ3106CEFD	J	Screw, x1	AB
1-3	LX-NZ3173CEFW	J	Insert Nut, x1	AD
2	*Not Available*	–	Top Body Unit Ass'y	—
2-1	DBDYTA015WJ01	J	Top Body Ass'y	BK
2-1-1	*Not Available*	–	Top Body	—
2-1-2	GCOVAA032WJKA	J	LED Cover	BB
2-1-3	*Not Available*	–	"SHARP" Badge	—
2-1-4	HiNDPA057WJSA	J	"IQ" Label	AF
2-1-5	DBTN-A013WJ01	J	Operation Button Ass'y	AX
2-1-5-1	*Not Available*	–	Operation Button	—
2-1-5-2	HDECQA025WJKA	J	Decoration Button-A	AH
2-1-5-3	HDECQA026WJKA	J	Decoration Button-B	AH
2-1-5-4	HDECQA027WJKA	J	Decoration Button-C	AH
2-1-6	TLABZA126WJZZ	J	Quick Guide Label	AG
2-1-7	PSPAZA106WJZZ	J	Spacer, x12	AA
2-2	JBTN-A014WJKA	J	Height Adjust Button	AE
2-3	LANGKA006WJFW	J	Fixing Angle	AD
2-4	MSPRCA001WJFW	J	Spring, for Height Adjust Button	AB
2-5	PSPAT0013CEZZ	J	Tape, x4	AC
2-6	QCNW-A492WJZZ	J	Leaf Switch	AH
2-7	XBPSF26P06000	J	Screw, x1	AA
2-8	XEBSD30P08000	J	Screw, x1	AA
2-9	XEPSD26P08000	J	Screw, x1	AA
3	*Not Available*	–	Bottom Body Unit Ass'y	—
3-1	DBDYUA003WJ03	J	Bottom Body Ass'y	BC
3-1-1	*Not Available*	–	Bottom Body	—
3-1-2	HiNDPA329WJSA	J	Model Label	
3-1-3	HiNDPA292WJSA	J	FCC Label	
3-1-4	HiNDPA114WJSB	J	Hot Caution Label	AD
3-1-5	*Not Available*	–	Kensington Standard Security Connector	—
3-1-6	LX-NZ3120CEFW	J	Insert Nut(R)	AB
3-1-7	LX-NZ3122CEFW	J	Insert Nut(L)	AC
3-1-8	PFiLDA003WJZZ	J	PBS Filter	AG
3-2	DCOVAA029WJ01	J	Bottom Filter Cover Ass'y	AR
3-2-1	*Not Available*	–	Bottom Filter Cover	—
3-2-2	HPNC-A002WJSA	J	Intake Punching Cover	AL
3-3	GCOVA1824CESA	J	R/C Cover	AD
3-4	GCOVAA030WJKA	J	Exhaust Panel	AM
3-5	GCOVAA038WJKA	J	Handle Cover, x2	AF
3-6	GLEGPA003WJKA	J	Adjuster Foot(Front)	AW
3-7	GLEGPA004WJKA	J	Adjuster Foot(Rear, Right)	AH
3-8	GLEGPA005WJKA	J	Adjuster Foot(Rear, Left)	AH
3-9	HPNC-A001WJSA	J	Punching Cover	AL
3-10	JHNDAA001WJKA	J	Carrying Handle	BH
3-11	LANGKA040WJFW	J	Anti-Theft Angle	AD
3-12	LX-HZ3105CEFD	J	Screw, for Insert Nut, x1	AB
3-13	LX-NZ3095CEFD	J	Nut Screw(R)	AA
3-14	LX-NZ3123CEFE	J	Nut Screw(L)	AD
3-15	LX-NZ3173CEFW	J	Insert Nut, x1	AD
3-16	LX-NZA003WJFW	J	Nut, x3	AD
3-17	PFiLDA002WJZZ	J	Filter	AE
3-18	PSLDMA074WJZZ	J	Shield	AK
3-19	PSPAH0648CE00	J	Spacer, x2	AB
3-20	PSPAT0013CEZZ	J	Tape, x2	AC
3-21	PZETKA013WJZZ	J	Shield Spacer, x1	AG
3-22	PZETKA014WJZZ	J	Shield Spacer, x1	AH
3-23	PZETKA015WJZZ	J	Shield Spacer, x1	AD
3-24	QCNW-A493WJZZ	J	Leaf Switch	AF
3-25	XBPSD30P08JS0	J	Screw, x8	AA
3-26	XBPSD40P05J00	J	Screw, x3	AA
3-27	XEBSD30P12000	J	Screw, x7	AA
3-28	XEPSD26P08000	J	Screw, x1	AA
3-29	LANGKA075WJFW	J	Angle	AG
3-30	PGiDJA001WJKZ	J	Ventilation Angle	AE
4	*Not Available*	–	Speaker Net Unit Ass'y	—
4-1	DBFL-A001WJ01	J	Speaker Net Ass'y	AH
4-2	QCNW-5062CEZZ	J	Connection Cord(SP)	AE
4-3	VSP7040PB568A	J	Speaker	AL
4-4	XEBSD30P08000	J	Screw, x4	AA
5	Refer to Optical Mechanism parts			
6	*Not Available*	–	Lamp Door Unit Ass'y	—
6-1	DDORRA001WJ01	J	Lamp Door Ass'y	AQ
6-1-1	*Not Available*	–	Lamp Door	—
6-1-2	HiNDPA086WJZZ	J	Caution Label	AF
6-1-3	HiNDPA087WJZZ	J	Caution Label	AE
6-1-4	PSPAHA070WJ00	J	Spacer	AB
6-1-5	PSPAHA071WJ00	J	Spacer	AB
6-1-6	PSPAHA072WJ00	J	Spacer	AA
6-2	LX-BZ3366CEFN	J	Screw, x1	AD
6-3	XRESJ30-06000	J	E-ring, x1	AA
7	CCOVAA027WJKA	J	Lens Cover(Upper) Ass'y	AR
7-1	*Not Available*	–	Les Cover (Upper)	—
7-2	PSPAHA084WJZZ	J	Spacer, x4	AA
8	GCOVAA028WJKA	J	Lens Cover(Lower)	AH
9	HPNC-A003WJFW	J	Cooling Fan Attaching Angle	AP
10	LANGTA007WJFW	J	AC Socket Attaching Angle	AD
11	LHLDW1003GEZZ	J	Wire Holer, x1	AA
12	LHLDW1060CEZZ	J	Wire Holer, x1	AB
13	LHLDZA009WJKZ	J	PWB Holder	BB
14	LX-BZA020WJZZ	J	Screw, x2	AC
15	LX-HZA007WJFD	J	Screw, x4	AB
16	NFANRA004WJZZ	J	Cooling Fan	AR
17	PCAPFA003WJSA	J	Lens Cap	AG
18	PSPAGA036WJZZ	J	Fan Spacer, x6	AD
19	PZETKA004WJZZ	J	Shield, for Ballast Unit	AQ
20	PZETKA005WJ00	J	Shield, for Output Unit	AP
21	PZETZA004WJKZ	J	Insulating Sheet	AD
22	DUNTKB170DE03	–	Input Unit	—
23	DUNTKB171FE03	–	Output Unit	—
24	DUNTKB172DE03	–	Key Unit	—
25	DUNTKB173DE03	–	R/C Receiver Unit	—
26	RUNTKA021WJZZ	–	AC Inlet Unit	—
27	CPCi-A002CE03	J	PC I/F Unit	CW
28	RDENCA011WJZZ	–	Power Unit	—
29	RDENCA012WJZZ	J	Ballast Unit	CB
30	QCNW-A491WJZZ	J	Bi-Metal	AM
31	QCNW-A774WJZZ	J	Connecting Cord(FG)	AD
32	QCNW-A496WJZZ	J	Connecting Cord	AG
33	QCNW-A899WJZZ	J	Connecting Cord	AD
34	QCNW-A495WJZZ	J	Connecting Cord	AD
35	XBBSD40P12000	J	Screw, x1	AB
36	XBBSF30P10000	J	Screw, x4	AA
37	XBPSD30P06R00	J	Screw, x8	AB
38	XEBSD30P08000	J	Screw, x4	AA
39	XEBSD30P12000	J	Screw, x13	AA
40	XEBSF30P12000	J	Screw, x10	AA
41	NSFTZ0134CEFW	J	Shaft Screw, x6	AD
42	NSFTZA001WJFW	J	Shaft Screw, x4	AD
43	GCOVHA014WJKZ	J	Shading Cover	AD
44	LANGTA005WJFW	J	Attaching Angle, x2	AE
45	LANGTA006WJFW	J	Attaching Angle, x1	AG
46	PSLDMA008WJFW	J	Shield	AK
47	LHLDW1021GE00	J	Wire Holder, x1	AC
49	PSPAZA061WJZZ	J	Spacer, x2	AD
50	PSLDMA009WJFW	J	Terminal Shield	AH
51	*Not Available*	–	Serial No. Label	—
52	95KECB8034ZZ	J	Connecting Cord	AL
53	95KEDB7717ZZ	J	Connecting Cord	AE
54	XJPSF30P08000	J	Screw, x2	AA
55	XBPSD40P05J00	J	Screw, x1	

OPTICS MECHANISM PARTS-1/2







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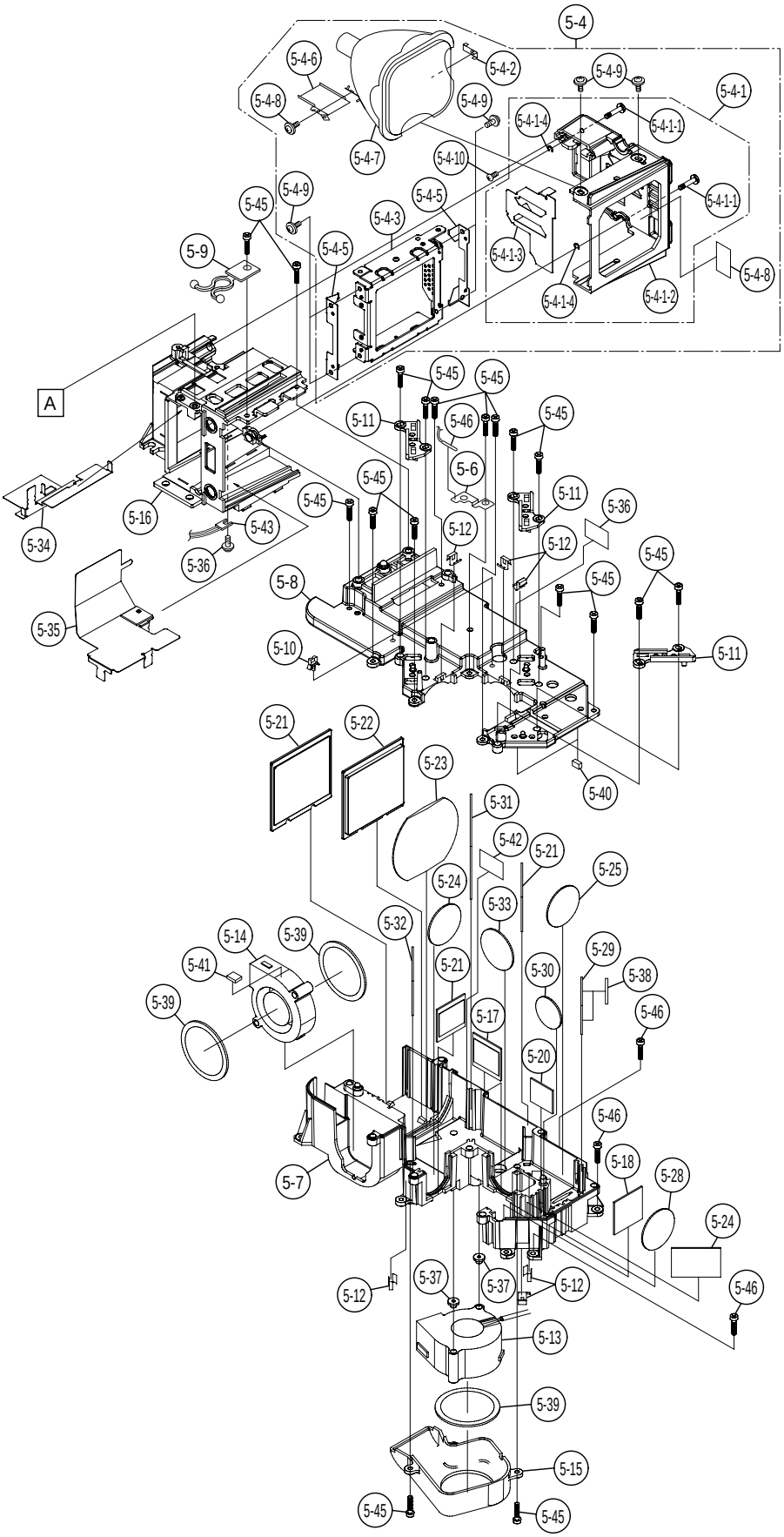
OPTICS MECHANISM PARTS-2/2



OPTICAL MECHANISM PARTS

Ref. No.	Part No.	★	Description	Code
5	CCHSKA001WJ21	J	Optical Mechanism Unit	EZ
5-1	*Not Available*	–	Intake Duct Ass'y	—
5-1-1	LANGKA009WJFW	J	IC Fan Angle	AH
5-1-2	LHLDW1037CEZZ	J	Wire Holder, x1	AA
5-1-4	NFANRA005WJZZ	J	Cooling Fan, x1	AR
5-1-5	NFANSA002WJZZ	J	Blow Fan, x2	AV
5-1-6	NFANSA003WJZZ	J	Blow Fan, x1	AU
5-1-7	PDUC-A001WJKZ	J	Intake Duct(Bottom)	AN
5-1-8	PDUC-A002WJKZ	J	Intake Duct(Top)	AM
5-1-9	PSPAZ0373CEZZ	J	Spacer, for Fan, x12	AC
5-1-10	PSPAZA017WJZZ	J	Spacer, for Fan, x3	AB
5-1-11	QCNW-A498WJZZ	J	Connecting Cord(SO)	AF
5-1-12	QCNW-A499WJZZ	J	Connecting Cord(EB)	AH
5-1-13	RH-HXA002WJZZ	J	Thermister	AH
5-1-14	RUNTKA026WJZZ	J	Fan Unit	BD
5-1-15	XBPSD26P14000	J	Screw, x2	AA
5-1-16	XEBSD30P12000	J	Screw, x2	AA
5-1-17	RCORFA017WJZZ	J	Core	AH
5-2	*Not Available*	–	Exhaust Duct Ass'y	—
5-2-1	LANGKA004WJFW	J	Fixing Angle, x2	AD
5-2-2	LANGKA005WJFW	J	Fixing Angle, x2	AD
5-2-3	NFANRA003WJZZ	J	Exhaust Fan	AV
5-2-4	PDUC-A003WJKZ	J	Exhaust Duct	AQ
5-2-5	PSLDPA003WJFW	J	Heat Sink	AE
5-2-6	PSPAZ0373CEZZ	J	Spacer, for Fan, x8	AC
5-2-7	XEBSD30P12000	J	Screw, x5	AA
5-3	*Not Available*	–	Prism Holder Unit	—
5-3-1	CMiR-A004WJ21	J	Prism Unit	
5-3-1-1	LANGKA001WJFW	J	PF Spring, x3	AD
5-3-1-2	LANGKA002WJFW	J	Holder Angle	AE
5-3-1-3	LANGKA036WJ00	J	Lgiht Shield Plate	AK
5-3-1-8	XASSF20P04000	J	Screw, x6	AB
5-3-1-10	XiPSF20P04000	J	Screw, x6	AA
5-3-1-13	MSPRPA017WJFW	J	Earth Spring, x1	AD
NOTE:	***When exchanging the following parts, it becomes unit replacement correspondence.***			
5-3-1-5	*Not Available*	–	Output Polarizer(G)	—
5-3-1-6	*Not Available*	–	Output Polarizer(B)	—
5-3-1-7	*Not Available*	–	Output Polarizer(R)	—
5-3-1-9	*Not Available*	–	Screw, x9	—
5-3-1-11	*Not Available*	–	Bottom Angle, x3	—
5-3-1-12	*Not Available*	–	LCD Fixing Angle, x3	—
5-3-1-14	*Not Available*	–	Cross Dichroic Prism	—
5-3-1-15	*Not Available*	–	LCD Panel(R)	—
5-3-1-16	*Not Available*	–	LCD Panel(G)	—
5-3-1-17	*Not Available*	–	LCD Panel(B)	—
5-3-2	LHLDZA002WJFW	J	Prism Holder	AZ
5-3-3	LHLDZA036WJFW	J	Lens Mount	BD
5-3-4	LX-BZ3248CEFF	J	Screw, x4	AB
5-3-5	XBPSF30P08JS0	J	Screw, x4	AA
⚠ 5-4	BQC-XGC50X//1	J	Lamp Unit	CQ
5-4-1	*Not Available*	–	Lamp Case Ass'y	—
5-4-1-1	LX-BZ3449CEFN	J	Screw, x2	AC
5-4-1-2	PCASZA002WJKZ	J	Lamp Case	AR
5-4-1-3	PSLDHA001WJFW	J	Heat Sink	AE
5-4-1-4	XREUW20-04000	J	E-ring, x2	AA
5-4-2	LANGKA072WJFW	J	Fixing Angle	AD
5-4-3	LANGUA002WJFW	J	Lamp Adjusting Angle	AN
5-4-4	LANGUA004WJFW	J	Wind Guide Plate	AD
5-4-5	MSPRKA002WJFW	J	Reflector Fixing Angle, x2	AD
5-4-6	PSLDHA011WJFW	J	Heat Sink	AE
5-4-7	RLMPFA003WJZZ	J	Lamp	CL
5-4-8	TLABZA053WJZZ	J	Caution Label	AC
5-4-9	XBPBN30P06JS0	J	Screw, x2	AB
5-4-10	XBPSF30P08JS0	J	Screw, x6	AA
5-4-11	XEBSD30P12000	J	Screw, x1	AA
5-5	GCOVUA003WJKZ	J	Light Shield Plate	AD
5-6	LANGKA037WJFW	J	Temp. Sensor Attaching Angle	AD
5-7	LCHSKA001WJKZ	J	Optical Mecha. Unit, Base	AY
5-8	LCHSKA002WJKZ	J	Optical Mecha. Unit, Cover	AV
5-9	LHLDW1046CEZZ	J	Wire Holder	AA
5-10	LHLDW1076GEZZ	J	Cable Clamp Holder, x3	AA
5-11	LHLDZA001WJKZ	J	Mirror Adj. Holder, x3	AD
5-12	MSPRP1198CEFW	J	Mirror Fixing Spring, x6	AD
5-13	NFANSA002WJZZ	J	Blow Fan	AV
5-14	NFANSA003WJZZ	J	Blow Fan	AU
5-15	PCOVZA001WJKZ	J	PBS Fan Holder	AH
5-16	PCOVZA002WJKZ	J	Lamp House	AS
5-17	PFiLWA021WJZZ	J	Incoming PF(G)	BB
5-18	PFiLWA022WJZZ	J	Incoming PF(B)	BG
5-19	PFiLWA023WJZZ	J	Incoming PF(R)	BD
5-20	PFiLWA024WJZZ	J	UV Absorbing Filter	AU
5-21	PLNS-A006WJZZ	J	Fly-eye Lens-1	BE
5-22	PLNS-A007WJZZ	J	Fly-eye Lens-2	BS
5-23	PLNS-A008WJZZ	J	Condenser Lens-1	AX
5-24	PLNS-A009WJZZ	J	Condenser Lens-2, x2	AS
5-25	PLNS-A010WJZZ	J	Relay Lens-1	AT
5-26	PLNS-A011WJZZ	J	Relay Lens-2	AQ
5-27	PLNS-A012WJSA	J	Projection Lens	BZ
5-28	PLNS-A015WJZZ	J	Relay Lens-3	AS
5-29	PMiR-0219CEZZ	J	Reflection Mirror(M3)	AS
5-30	PMiR-A005WJZZ	J	Reflection Mirror(M1)	AZ
5-31	PMiR-A006WJZZ	J	Reflection Mirror(M2)	AV
5-32	PMiR-A008WJZZ	J	Reflection Mirror(M4)	AM
5-33	PMiR-A009WJZZ	J	Reflection Mirror(M5)	AL
5-34	PSLDHA003WJFW	J	Heat Sink, for Lamp House	AF
5-35	PSLDHA004WJFW	J	Heat Sink, for Lamp House	AF
5-36	PSPAT0076CEZZ	J	Teflon Tape, x2	AC
5-37	PSPAZ0373CEZZ	J	Fan Spacer, x2	AC
5-39	PSPAZA014WJZZ	J	Blow Fan Spacer, x3	AD
5-40	PSPAZA016WJZZ	J	Fixing Spacer, x13	AB
5-41	PSPAZA017WJZZ	J	Fan Spacer, x2	AB
5-42	PSPAZA090WJZZ	J	Glass Tape, x1	AF
5-43	QCNW-A546WJZZ	J	Connecting Cord	AG
5-44	RH-HXA003WJZZ	J	Temp. Sensor	AH
5-45	XBPSF30P08JS0	J	Screw, x22	AA
5-46	XEBSD30P12000	J	Screw, x4	AA
5-47	LHLDW1033CEKZ	J	Holder	AA
5-48	MSPRPA014WJFW	J	Spring, x4	AC
5-49	MSPRPA015WJFW	J	Spring, x2	AC
5-50	MSPRPA016WJFW	J	Spring, x2	AC
5-51	RCORFA017WJZZ	J	Core	AH

Ref. No.	Part No.	★	Description	Code

SUPPLIED ACCESSORIES

	PFiLDA005WJZZ	J	Extra Air Filter	AF
⚠	QACCDA010WJPZ	J	Power Cord (for U.S., Canada, etc)	AR
⚠	QACCBA012WJPZ	J	Power Cord(for U.K., Hong Kong and Singapore)	AX
⚠	QACCL3022CEZZ	J	Power Cord(for Australia, New Zealand and Oceania)	AZ
⚠	QACCV4002CEZZ	J	Power Cord (for Europe, except U.K.)	AZ
	QCNWGA012WJPZ	J	RGB Cable	AS
	QCNWGA013WJPZ	J	Computer Audio Cable	AK
	QCNWGA014WJPZ	J	USB Cable	AQ
	QCNWGA015WJPZ	J	DIN-D-sub RS-232C Adaptor	AK
	RCORF0083CEZZ	J	Core, for Power Cord (for U.S., Canada. etc)	AL
	RRMCGA029WJSA	J	Remote Control	BB
	TCADEA026WJZZ	J	Questionnaire Card	AG
	TCAUZA015WJZZ	J	Stipulation Card	AE
	TiNS-A139WJZZ	J	Operation Manual	AK
	TiNS-A428WJZZ	J	Operation Manual	AQ
	UDSKAA016WJZZ	J	CD-ROM(INS)	AM
	UDSKAA017WJZZ	J	CD-ROM(SAPS)	AM
	TLABZA127WJZZ	J	Quick Guide Label (for Europe, except U.K.)	AS
	TLABZA201WJZZ	J	Quick Guide Label	
	TLABZA202WJZZ	J	Quick Guide Label (for Europe, except U.K)	
	CGAN-A075WJ01	J	ER Package (for U.S., Canada)	

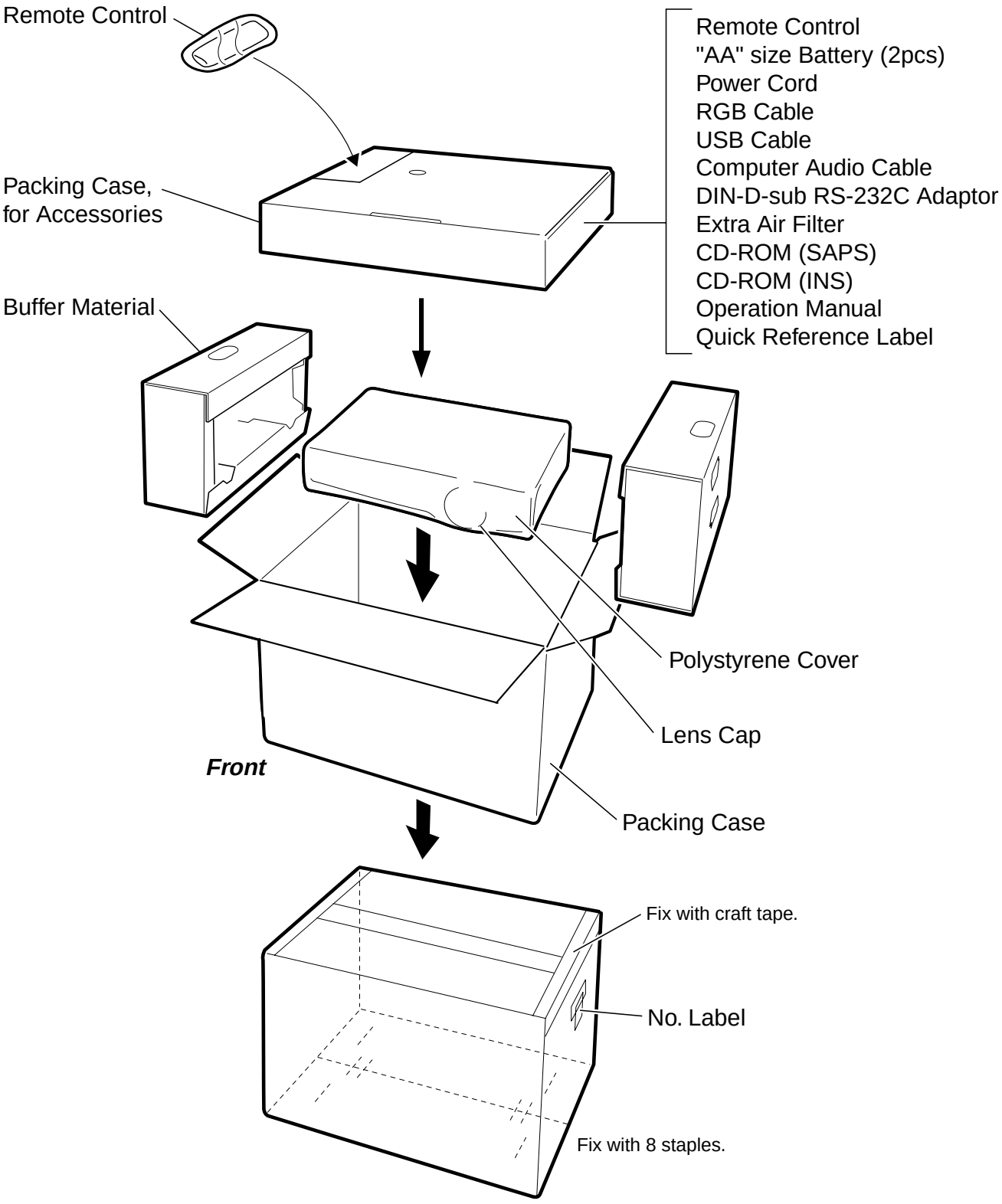
PACKING PARTS
(NOT REPLACEMENT ITEM)

	SPAKCA379WJZZ	–	Packing Case	—
	SPAKFA040WJZZ	–	Packing Case, for Accessories	—
	SPAKFA071WJZZ	–	Partition	—
	SPAKP0805CEZZ	–	Polystylene Cover	—
	SPAKXA053WJZZ	–	Buffer Material	—
	SSAKA0160CEZZ	–	Polyethylene Bag	—
	TLABK0001TAZZ	–	No. Label	—

EXTENSION CABLE
(Use for servicing)

	QCNW-A868WJZZ	J	Connecting Cable (OUTPUT-INPUT)	
	QCNW-A869WJZZ	J	Connecting Cable (OUTPUT-PC I/F)	
	QCNW-A870WJZZ	J	Connecting Cord (OUTPUT-PC I/F)	
	QCNW-5688CEZZ	J	Connecting Cable (OUTPUT-LCD), x3	BK

PACKING OF THE SET/VERPACKEN DES GERÄTS



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